

## Collection Records of the Project "Mosquitoes of Middle America"

10. Panama, including Canal Zone (PA, GG)<sup>1</sup>Sandra J. Heinemann and John N. Belkin<sup>2</sup>

For general information and collections from the Dominican Republic (RDO) the first publication of this series should be consulted (Belkin and Heinemann 1973). Any departure from the method in this publication is indicated below. Publications 2-6 of the series (Belkin and Heinemann 1975a, 1975b, 1976a, 1976b, 1976c) recorded data on collections from the remainder of the West Indies except Jamaica (Belkin, Heinemann and Page 1970:255-304) and the islands adjacent to Venezuela as well as Trinidad and Tobago (to be covered later).

Publication 7 on collections from Costa Rica (Heinemann and Belkin 1977a) began treatment of Central America and publication 8 covered the rest of nuclear Central America (Heinemann and Belkin 1977b). Publication 9 was devoted to Mexico (Heinemann and Belkin 1977c) and the present publication covers the extensive collections in Panama (including Canal Zone).

Nearly all the collections from Panama and the Canal Zone were made expressly for the project under code PA and bear one of the following printed labels://PA[handwritten 1-116, 928-933]/Panama '63/Gorgas M Lab//, //PA[handwritten 171-671, 705-734]/Panama 63/64/Gorgas Mem Lab//, //PA[handwritten 735-785, 787-927, 934, 936-1004]/Panama 65-66/Gorgas Mem Lab//, //PA[handwritten 1005-1027, 1029-1047]/Panama 67-68/Mosq Mid Amer//, //PA[handwritten 1048-1049]/Panama 69-70/Mosq Mid Amer//, //PA[handwritten 1051-1057, 1059]/Panama 7[1 or 2]/Mosq Mid Amer// and //PA[handwritten 1061-1116, 1118-1177, 1180-1185]/Pan/CanZone 7[2]/Mosq Mid Amer//. These collections could not have been made without the cooperation of the administrators and the staff of (1) Gorgas Memorial Laboratory, (2) Environmental Health Division, U.S. Army Forces, Southern Command, and (3) Division of Sanitation, Canal Zone Government. We thank Martin D. Young, Wallace P. Murdoch, Laurence Johnston, Marvin Keenan, James P. MacLaren and Melvin M. Boreham for the assistance they provided for our surveys. We are particularly indebted to our good friends and cooperators Pedro Galindo and Abdiel J. Adames of Gorgas Memorial Laboratory for their support of the project. Special mention should be made of Audiberto Quinonez who participated in most of the field work. Without the contributions of all these individuals it would not have been possible for the project to make a survey of the mosquitoes of Panama.

The collections under code GG were donated to the project by Gorgas Memorial Laboratory. They are identified by one of the following printed labels://GG[handwritten numbers]/Panama '58/Gorgas M Lab// or //GG[handwritten numbers]/Panama 1958/Gorgas Mem Lab//. This incomplete series of collections was made in Darien province from Nov 1957 to Sept 1958 by Gorgas Laboratory personnel. The data for the collections are incomplete and may be incorrect in some cases.

We are indebted for collections in Panama to Lloyd E. Rozeboom to which we have assigned code PAR and to Stanley J. Carpenter for collections assigned code PC. These collections will be treated at a later date.

As noted in Collection Records 7 (Heinemann and Belkin 1977a) various errors in previous publications of the project have been rectified in the present publication; also, most of the identifications are preliminary identifications only and **in no way constitute a change in taxonomic status.**

The following corrections of data in previous publications are particularly important: (1) Berlin 1969:82 (type locality for *Aedes brevis*) and Zavortink 1973:15 (type locality for *Anopheles pholidotus*). The type locality for the first species is given as "La Zorra, Chiriquisito, Chiriqui Grande, Bocas del Toro, Panama, 4400ft," and for the second as "La Zorra, Bocas del Toro, Panama, 1340m." This is the same collection site, and the elevation is probably somewhat higher, about 1500m. The full data for this locality should be: "La Zorra" (17PLV6372), on Tres de Noviembre trail just N of continental divide,

<sup>1</sup>Contribution from project "Mosquitoes of Middle America" supported by U.S. Public Health Service Research Grant AI-04379 and U.S. Army Medical Research and Development Command Research Contract DA-49-193-MD-2478.

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Cerro Guayabo, nearest town Punta de Pena, Bocas del Toro, Panama, ?1500m. See PA171 and 173. (2) Berlin 1969:84. "Bionomics. Immature stages of *brevis* have been collected in epiphytic bromeliads." This is incorrect; *Aedes brevis* larvae have been collected from aroid (*Dieffenbachia*) leaf axils only. See PA171 (holotype), 178, 183. (3) Valencia (1973:76) gives the type locality for *Culex (Carrollia) cerqueirai* as "Quebrada Grande, Bocas del Toro." This is an incorrect translation by Valencia of the correct locality, "Big Creek." The full data for the type locality should be: Big Creek (17PLA6335), about 2km N of Bocas del Toro on Isla Colon, Bocas del Toro, Panama, 10m. See PA654.

### Maps Used for Panama Collections

For grid coordinates, elevations and localities:

Panama 1:50,000, series E762, sheets 1288-2, 1388-4, 3642-1, -2, 3644-2, 3742-1, -2, -3, 3743-4, 3744-2, -3, 4141-1, 4143-1, 4241-3, -4, 4242-1, -3, -4, 4243-1, -2, -3, -4, 4244-1, -2, -3, 4343-1, -2, -3.

World 1:250,000, series 1501, sheets NB17-4, NC17-10, -11, -12, -14, -15, -16.

For elevations and localities only:

World 1:1,000,000, series 1301, sheets NB18, NC18.

For localities only:

Panama Railroad Co., Canal Zone 1:80,000, June 1911.

Canal Zone and Vicinity 1:100,000, series E661, ed. 4-AMS.

Road Map of Canal Zone and Vicinity 1:100,000, USARCARIB, 1962.

Esso Road Map: Panama 1:120,000; Canal Zone inset 1:291,000; Colon 1:23,800; Panama City 1:24,500; 1964.

For localities and spellings:

U.S. Board on Geographic Names gazetteer no. 110 for Panama and the Canal Zone, 1969.

### Panama Collectors

|     |                                |    |                    |
|-----|--------------------------------|----|--------------------|
| AA  | Abdiel Adames                  | IL | I. Leguia          |
| HA  | J. Hal Arnell                  | JM | Jim MacLaren       |
| JB  | John N. Belkin                 | AM | Manuel Mena        |
| GB  | O. George W. Berlin            | OM | Jose Mena          |
| MB  | Melvin Boreham                 | MM | Marjorie Moody     |
| PC  | P. Chavez                      | PO | P. Orjuela         |
| PG  | Pedro Galindo                  | AQ | Audiberto Quinonez |
| GML | Gorgas Memorial Lab. personnel | RS | Robert X. Schick   |
| RH  | Rudolph Hinds                  | DS | Donald Schroeder   |
| LJ  | Laurence Johnston              | KS | Karen Schroeder    |
| MK  | Marvin Keenan                  | ET | Edward Tyson       |

### Summary of PA Collections

|            |                           |                        |  |
|------------|---------------------------|------------------------|--|
| PA 1-116   | 17 Jan-18 Feb 1963        | AQ                     | Canal Zone, Colon, Panama                              |
| PA 117-170 | Material and records lost | AQ                     | Darien (Puerto Obaldia)                                |
| PA 171-671 | 5 Apr 1963-16 Apr 1964    | AQ                     | Bocas del Toro, Chiriqui, Cocle, Colon, Darien, Panama |
| PA 672-704 | Not used                  |                        |  |
| PA 705-734 | 17 Sept-14 Nov 1964       | AQ                     | Canal Zone, Colon                                      |
| PA 735-785 | 31 Oct-12 Nov 1965        | JB, MM, AQ, RS         | Canal Zone, Panama                                     |
| PA 786     | Not used                  |                        |  |
| PA 787-927 | 15 Nov-12 Dec 1965        | PG, JM, MM, OM, AQ, RS | Canal Zone, Colon, Panama                              |
| PA 928-933 | 25 May-7 Jun 1963         | GML                    | Darien   |
| PA 934     | 22 Dec 1965               | RS                     | Canal Zone   |

|              |  |                        |                                     |
|--------------|--|------------------------|-------------------------------------|
| PA 935       | Not used   |                        |                                     |
| PA 936-943   | 1 Mar-9 May 1966   | AQ                     | Canal Zone, Panama                  |
| PA 944-1003  | 22 Nov-13 Dec 1966   | GB, RH, AM             | Darien, Panama                      |
| PA 1004      | 1-5 Nov 1965   | PO                     | Bocas del Toro                      |
| PA 1005-1023 | 6-7 Sept 1967  | AA                     | Colon, Panama                       |
| PA 1024-1027 | 7 Feb-8 Mar 1968   | MB, PC                 | Canal Zone                          |
| PA 1028      | Not used   |                        |                                     |
| PA 1029-1047 | Miscellaneous <i>Deinocerites</i> from GML collections and colonies with incomplete data |                        |                                     |
| PA 1048-1049 | 28 Jan-12 Feb 1970   | PC, IL                 | Colon                               |
| PA 1050      | Not used   |                        |                                     |
| PA 1051-1056 | 13-14 Sept 1971  | DS, KS                 | Chiriqui                            |
| PA 1057      | 6 Apr 1972   | GML                    | Darien                              |
| PA 1058      | Not used   |                        |                                     |
| PA 1059      | 24 Apr 1972  | PG                     | Darien                              |
| PA 1060      | Not used   |                        |                                     |
| PA 1061-1116 | 24 Jun-13 Jul 1972   | HA, MB, MK, ET         | Canal Zone, Chiriqui, Colon, Panama |
| PA 1117      | Not used   |                        |                                     |
| PA 1118-1177 | 13 Jul-Aug 1972  | HA, MB, RH, MK, LJ, JM | Canal Zone, Colon, Panama           |
| PA 1178      | GML colony   |                        |                                     |
| PA 1179      | Not used   |                        |                                     |
| PA 1180-1185 | 15 Sept-18 Oct 1972  | MB                     | Canal Zone                          |

#### PA Collection Records

1. Canal Zone, Gamboa, Rio Chagres, "San Antonio," 30m; 17 Jan 63, AQ. Bamboo (several uncut internodes with small holes) in partial forest; 1-2m above ground; water clear, dark; deep shade. *Sa. (Sbn.) undosus*, *Wy. (Pen.) arthro stigma*, *Wy. (Tri.) aporonoma*, *Wy. (Tri.)* sp 8.
2. Canal Zone, Gamboa, Rio Chagres, "San Antonio," 30m; 17 Jan 63, AQ. Swamp margin in partial forest; water clear; little aquatic vegetation; partial shade. *An. (Ano.) punctimacula*, *Cx. (Mel.)* sp near *commevynensis*, *Cx. (Mel.) educator*, *Cx. (Mel.) egcymon*, *Cx. (Mel.)* sp near *evansae*, *Cx. (Mel.) tectmarsis*, *Cx. (Mel.) ?zeteki*, *Ur. (Ura.)* sp undetermined.
3. Panama, Chilibre, Juan Mina (17PPA4813), 40m; 17 Jan 63, AQ. Epiphytic bromeliads (*Tillandsia*) in partial forest; 6-9m above ground. *Cx. (Mcx.) jenningsi* group, *Or. phyllozoa*, *Tx. (Lyn.) superbus*, *Wy. (Wyo.) celenocephala*.
4. Panama, Chilibre, Juan Mina (17PPA4813), 40m; 18 Jan 63, AQ. Small ground pools along intermittent streams in forest; water clear; no vegetation; deep shade. *An. (Ano.) eiseni*, *Cx. (Cux.) chidesteri*, *Cx. (Mel.) elevator*, *Ur. (Ura.)* sp near *typhlosomata*, *Ur. (Ura.) calosomata* group ?sp B.
5. Panama, Chilibre, Juan Mina (17PPA4813), 40m; 18 Jan 63, AQ. Treehole in forest; at ground level; deep shade. *Ae. (Pro.) thorntoni*, *An. (Ano.) eiseni*, *Cx. (And.) corrigani*, *Hg. (Hag.) lucifer*.
6. Panama, Chilibre, Juan Mina (17PPA4813), 40m; 18 Jan 63, AQ. Aroid leaf axils (*Dieffenbachia*) in forest; deep shade. *Tr. (subg. A) ulopus*, *Wy. (Prs.)* sp undetermined.
7. Panama, Chilibre, Juan Mina (17PPA4813), 40m; 18 Jan 63, AQ. Small ground pools (impounded creek) in partial forest; abundant plant debris; partial shade. *An. (Ano.) eiseni*, *An. (Ano.)* sp undetermined, *Cx. (Mel.) conspirator*, *Cx. (Mel.) elevator*.
8. Panama, Chilibre, Juan Mina (17PPA4813), 40m; 18 Jan 63, AQ. Treehole in forest; 0.5-1.5m above ground; deep shade. *Cx. (And.) conservator*.
9. Panama, Chilibre, Juan Mina (17PPA4813), 40m; 18 Jan 63, AQ. Small ground pools along intermittent creek in forest; water muddy; deep shade. *Cx. (Cux.) coronator* group, *Cx. (Mel.)* sp undetermined, *Ur. (Ura.) calosomata* group sp A, *Ur. (Ura.) calosomata* group sp B.
10. Panama, Chilibre, Juan Mina (17PPA4813), 40m; 18 Jan 63, AQ. Small ground pools in the open; water muddy; full sun. *Cx. (Cux.) coronator* group, *Ur. (Ura.)* sp undetermined.

## PA Collection Records

11. Panama, Chilibre, Juan Mina (17PPA4813), 40m; 18 Jan 63, AQ. Stream in the open; water clear, with slow current; abundant algae (*Spirogyra*); full sun. *Ur. (Ura.) geometrica*.
12. Panama, Chilibre, Juan Mina (17PPA4813), 40m; 19 Jan 63, AQ. Stream in the open; water with slow current; abundant floating vegetation (*Pistia*); full sun. *Ad. (Ady.) squamipennis*, *An. (Nys.) triannulatus*, *Co.* sp undetermined, *Cx. (Mel.) erraticus*, *Cx. (Mel.) panocossa*, *Ma. (Man.)* sp undetermined, *Ur. (Ura.) apicalis*.
13. Panama, Chilibre, Las Guacas (17PPA4815), 40m; 19 Jan 63, AQ. Stream margin in the open; water clear, with slow current; choked with floating vegetation (*Naias*); full sun. *Ad. (Ady.) squamipennis*, *An. (Nys.) albimanus*, *Co.* sp undetermined, *Cx. (Cux.) coronator* group, *Cx. (Mel.) erraticus*, *Ur. (Ura.) apicalis*.
14. Colon, Chilibre, Santa Rosa (17PPA4715), 40m; 19 Jan 63, AQ. Stream margin in the open; water clear, with slow current; abundant grassy vegetation; full sun. *Cx. (Mel.) bastagarius*.
15. Panama, Chilibre, Juan Mina (17PPA4813), 40m; 19 Jan 63, AQ. Swamp in the open; water clear; abundant aquatic vegetation; full sun. *Cx. (Cux.) declarator* group, *Cx. (Mel.) dunni*, *Ur. (Ura.) lowii*.
16. Panama, Chilibre, Juan Mina (17PPA4813), 40m; 20 Jan 63, AQ. *Heliconia mariae* leaf axils near swamp or lake; full sun. *Wy. (Cal.) melanocephala*, *Wy. (Dec.) ulocoma* group.
17. Panama, Chilibre, Juan Mina (17PPA4813), 40m; 20 Jan 63, AQ. *Heliconia latispatha* flower bracts in forest; partial shade. *Tr. (subg. A) ulopus*, *Wy. (Cal.) melanocephala*, *Wy. (Dec.) ulocoma* group.
18. Panama, Chilibre, Juan Mina (17PPA4813), 40m; 20 Jan 63, AQ. Swampy area formed by overflow of impounded stream; full sun. *Cx. (Cux.) chidesteri*, *Cx. (Cux.)* sp undetermined.
19. Panama, Chilibre, Juan Mina (17PPA4813), 40m; 20 Jan 63, AQ. Swamp margin; partial shade. *An. (Ano.) punctimacula*, *Cx. (Cux.) chidesteri*.
20. Canal Zone, Chilibre, Rio Chilibre, 30m; 21 Jan 63, AQ. Marantaceae leaf axils (*Calathea lutea*). *Tr. (Cte.) magnum*.
21. Original collection site not specified; eggs from GML colony reared at UCLA. *Hg. (Hag.) equinus*.
22. Canal Zone, Chilibre, Rio Chilibre, 30m; 21 Jan 63, AQ. Stream in second growth; water clear, with slow current; no aquatic vegetation; partial shade. No specimens.
23. Canal Zone, Chilibre, Rio Chilibre, 30m; 21 Jan 63, AQ. Marantaceae flower bracts (*Calathea lutea*). No specimens.
24. Canal Zone, Chilibre, Rio Chilibre, 30m; 21 Jan 63, AQ. *Heliconia mariae* leaf axils. No specimens.
25. Canal Zone, Chilibre, Rio Chilibre, 30m; 21 Jan 63, AQ. Stream in partial forest; water clear, with slow current; no aquatic vegetation; deep shade. *An. (Ano.) punctimacula*, *Cx. (Mel.) elevator*, *Cx. (Mel.)* spp undetermined, *Ur. (Ura.) typhlosomata*.
26. Canal Zone, Chilibre, Rio Chilibre, 30m; 21 Jan 63, AQ. *Heliconia latispatha* flower bracts. *Tr. (subg. A) ulopus*, *Wy. (Dec.) pseudopecten* group, *Wy. (Dec.) ulocoma* group.
27. Canal Zone, Chilibre, Rio Chilibre, 30m; 21 Jan 63, AQ. Stream margins; water clear, with slow current; abundant floating vegetation (*Pistia stratiotes*, *Piaropus azureus*); full sun. *Ad. (Ady.) squamipennis*, *An. (Nys.) triannulatus*, *Cx. (Mel.) bastagarius*, *Cx. (Mel.) panocossa*, *Cx. (Mel.)* sect. *Mel.*, *Cx. (Mel.)* sp undetermined, *Ur. (Ura.) apicalis*, *Ur. (Ura.) leucoptera*, *Ur. (Ura.) pulcherrima*.
28. Canal Zone, Chilibre, Rio Chilibre, 30m; 21 Jan 63, AQ. Epiphytic bromeliads (*Aechmea*); 7.5 m above ground. *Cx. (Mcx.) ?jenningsi* group, *Or. phyllozoa*, *Wy. (Wyo.) celaenocephala*, *Wy. (Wyo.) pertinans* group sp P, *Wy. (Wyo.) pertinans* group sp undetermined.
29. Canal Zone, Chilibre, Rio Chilibre, 30m; 21 Jan 63, AQ. Epiphytic bromeliads (*Tillandsia*); 6m above ground. *Cx. (Mcx.) ?jenningsi* group, *Or. phyllozoa*, *Wy. (Wyo.) celaenocephala*.
30. Colon, Chilibre, Santa Rosa (17PPA4715), 40m; 21 Jan 63, AQ. Artificial container (iron drum); water clear. *Cx. (Cux.) corniger*.
31. Panama, Chilibre, Juan Mina (17PPA4813), 40m; 21 Jan 63, AQ. Adults attracted to man in semidomestic area; 1830-2030hrs. *Ad. (Ady.) squamipennis*, *An. (Ano.) punctimacula*, *An. (Nys.) triannulatus*, *Cq. (Rhy.) fasciolata*, *Cq. (Rhy.) nigricans*, *Cx. (Mel.) ?panocossa*, *Cx. (Mel.)* sp undetermined, *Ma. (Man.)* sp undetermined.



## PA Collection Records

32. Panama, Chilibre, Juan Mina (17PPA4813), 40m; 22 Jan 63, AQ. Stream in second growth; water clear, with slow current; no vegetation; deep shade. *An. (Ano.) apicimacula*, *An. (Ste.) kompi*.
33. Panama, Chilibre, Juan Mina (17PPA4813), 40m; 22 Jan 63, AQ. Epiphytic bromeliads (*Aechmea*); 9m above ground. *Or. phyllozoa*, *Tx. (Lyn.) superbus*, *Wy. (Wyo.) celaenocephala*, *Wy. (Wyo.) pertinans* group sp Q, *Wy. (Wyo.) pertinans* group sp undetermined.
34. Panama, Chilibre, Juan Mina (17PPA4813), 40m; 22 Jan 63, AQ. Swamp in second growth; water clear; grass along edges; partial shade. No specimens.
35. Panama, Chilibre, Juan Mina (17PPA4813), 40m; 22 Jan 63, AQ. Stream in second growth; water clear, with slow current; no aquatic vegetation; partial shade. *An. (Ano.) apicimacula*, *Cx. (Mel.) elevator*, *Cx. (Mel.)* sp undetermined.
36. Panama, Chilibre, Juan Mina (17PPA4813), 40m; 22 Jan 63, AQ. Marantaceae leaf axils (*Calathea lutea*) in second growth; full sun. *Tr. (Cte.) magnum*.
37. Panama, Chilibre, ?Juan Mina (17PPA4813), 40m; 23 Jan 63, AQ. Swamp in second growth; water dark; deep shade. *Cx. (Cux.) chidesteri*, *Cx. (Mel.)* sp near *commevynensis*, *Cx. (Mel.) egcymon*, *Cx. (Mel.)* sp undetermined, *Ur. (Ura.) leucoptera*.
38. Panama, Chilibre, Juan Mina (17PPA4813), 40m; 23 Jan 63, AQ. Marantaceae leaf axils (*Calathea lutea*) in second growth; partial shade. *Tr. (Cte.) magnum*.
39. Panama, Chilibre, Juan Mina (17PPA4813), 40m; 23 Jan 63, AQ. Stream in second growth; water muddy, with slow current; no aquatic vegetation; partial shade. *Cx. (Mel.) conspirator*, *Cx. (Mel.) egcymon*, *Cx. (Mel.)* sp undetermined.
40. Panama, Chilibre, Juan Mina (17PPA4813), 40m; 23 Jan 63, AQ. Stream in second growth; water clear, with slow current; abundant grass; partial shade. *An. (Ano.) punctimacula*, *Cx. (Cux.) chidesteri*, *Cx. (Cux.) declarator* group, *Cx. (Mel.) egcymon*, *Cx. (Mel.)* sp near *zeteki*.
41. Panama, Chilibre, Juan Mina (17PPA4813), 40m; 24 Jan 63, AQ. *Heliconia latispatha* flower bracts in second growth; partial shade. *Tr. (subg. A) ulopus*, *Wy. (Cal.) melanocephala*.
42. Colon, Chilibre, Santa Rosa (17PPA4715), 40m; 26 Jan 63, AQ. Stream in partial forest; water muddy, with slow current; deep shade. *An.* sp undetermined, *Cx. (Mel.) dunni*, *Cx. (Mel.)* sp near *zeteki*, *Cx. (Mel.)* sp undetermined, *Ur. (Ura.) nataliae*.
43. Colon, Chilibre, Santa Rosa (17PPA4715), 40m; 26 Jan 63, AQ. Large ground pools; abundant aquatic vegetation; full sun. *An. (Nys.) albimanus*, *Cx. (Mel.)* spp undetermined, *Ur. (Ura.) pulcherrima*.
44. Panama, Chilibre, Juan Mina (17PPA4813), 40m; 27 Jan 63, AQ. Stream in the open; water muddy, with slow current; abundant grass; full sun. *Cx. (Cux.) chidesteri*, *Cx. (Mel.)* sp near *zeteki*, *Ma. (Man.)* sp undetermined, *Ur. (Ura.) lowii*.
45. Panama, Chilibre, Juan Mina (17PPA4813), 40m; 27 Jan 63, AQ. Small ground pools in intermittent creek in forest; water clear; no aquatic vegetation; deep shade. *An. (Ano.) eiseni*, *Cx. (Mel.) elevator*.
46. Panama, Chilibre, Juan Mina (17PPA4813), 40m; 27 Jan 63, AQ. Adults attracted to man; 12 m above ground; 1000-1300hrs. *Cq. (Rhy.) nigricans*, *Ma. (Man.)* sp undetermined, *Sa. (Sab.) cyaneus*, *Wy.* sp undetermined.
47. Panama, Chilibre, Juan Mina (17PPA4813), 40m; 28 Jan 63, AQ. Swamp in the open; abundant grass; full sun. *Cx. (Cux.) chidesteri*, *Cx. (Mel.) dunni*, *Cx. (Mel.)* ?sp near *zeteki*, *Ur. (Ura.) lowii*.
48. Panama, Chilibre, Juan Mina (17PPA4813), 40m; 28 Jan 63, AQ. Adults attracted to man in forest; 16m above ground; 1000-1300hrs. *Cq. (Rhy.) nigricans*, *Ma. (Man.)* sp undetermined.
49. Panama, Chilibre, Juan Mina (17PPA4813), 40m; 29 Jan 63, AQ. Epiphytic bromeliads (*Tillandsia*); 4-6m above ground. *Cx. (Mcx.) chryselatus*, *Cx. (Mcx.) gaudeator*, *Or. phyllozoa*, *Wy. (Wyo.) celaenocephala*, *Wy. (Wyo.) pertinans* group.
50. Panama, Chilibre, Juan Mina (17PPA4813), 40m; 29 Jan 63, AQ. Adults attracted to man in forest; 6-8m above ground; 1000-1300hrs. No specimens.
51. Panama, Chilibre, Juan Mina (17PPA4813), 40m; 30 Jan 63, AQ. Adults attracted to man in forest; 18m above ground; 1000-1300hrs. No specimens.
52. Panama, Chilibre, Juan Mina (17PPA4813), 40m; 30 Jan 63, AQ. Epiphytic bromeliads (*Tillandsia*); full sun. *Cx. (Mcx.)* sp undetermined, *Or. phyllozoa*, *Tx. (Lyn.) superbus*, *Wy. (Wyo.) celaenocephala*, *Wy. (Wyo.) pertinans* group.

## PA Collection Records

53. Canal Zone, Colon, Gatun (17PPA1925), 30m; 31 Jan 63, AQ. Bamboo (uncut internode). *Sa. (Sbn.) ?undusus*.
54. Panama, Panama City, near sea level; 29 Jan 63, AQ. Artificial container (septic tank); water brackish. *Cx. (Cux.) quinquefasciatus*.
55. Panama, Tocumen, near Cerro Azul, 150m; 4 Feb 63, AQ. Stream in second growth; water clear, with moderate current; full sun. *An. (Nys.) argyritarsis*, *Cx. (Cux.) coronator* group, *Ur. (Ura.)* sp near *typhlosomata*.
56. Panama, Tocumen, near Cerro Azul, 150m; 4 Feb 63, AQ. Small ground pools along stream in second growth; water muddy, stagnant; full sun. *An. (Nys.) argyritarsis*, *Cx. (Cux.) coronator* group, *Ur. (Ura.)* sp near *typhlosomata*.
57. Panama, Tocumen, Cerro Azul (17PPA7413), 600m; 6 Feb 63, AQ. Artificial container (iron drum) in the open; water muddy; full sun. *Cx. (Cux.) corniger*, *Cx. (Cux.) quinquefasciatus*.
58. Panama, Tocumen, Cerro Azul (17PPA7413), 600m; 6 Feb 63, AQ. Artificial container (tin can) in forest; deep shade. *An. (Ano.) eiseni*, *Cx. (Car.) bihaicolus*.
59. Panama, Tocumen, Cerro Azul (17PPA7413), 600m; 6 Feb 63, AQ. Small ground pool under rock in second growth; water muddy; deep shade. *An. (Nys.) argyritarsis*.
60. Panama, Tocumen, Cerro Azul, "La Zumbadora," 600m; 6 Feb 63, AQ. Small ground pools in second growth; water muddy, stagnant; full sun. *Ur. (Ura.) calosomata* group sp B.
61. Panama, Tocumen, Cerro Azul, "La Zumbadora," 600m; 6 Feb 63, AQ. Small ground pool (hoof print) in second growth; full sun. *Cx. (Cux.) coronator* group, *Ur. (Ura.)* sp undetermined.
62. Panama, Tocumen, Cerro Azul, "La Zumbadora," 600m; 7 Feb 63, AQ. Treehole in fallen tree in forest; 0.5m above ground; water dark; full sun. *An. (Ano.) eiseni*, *Cx. (Cux.) coronator* group, *Cx. (Cux.) mollis*.
63. Panama, Tocumen, Cerro Azul, "La Zumbadora," 600m; 7 Feb 63, AQ. Stream pools in forest; water clear, with moderate current; no aquatic vegetation; partial shade. *An. (Ano.)* sp undetermined, *Cx. (Cux.) coronator* group, *Cx. (Cux.) mollis*, *Cx. (Mel.) jubifer*, *Ur. (Ura.) calosomata* group sp B, *Ur. (Ura.)* sp near *typhlosomata*.
64. Panama, Tocumen, Cerro Azul, "La Zumbadora," 600m; 7 Feb 63, AQ. Stream margins in forest; water clear, with strong current; full sun. *An. (Ano.) eiseni*, *Ch. bathana*, *Cx. (Mel.) elevator*.
65. Panama, Tocumen, Cerro Azul, "La Zumbadora," 600m; 7 Feb 63, AQ. Rockholes along stream in forest; deep shade. *An. (Ano.) eiseni*, *Cx. (Cux.) corniger*, *Cx. (Cux.) mollis*, *Cx. (Mel.) elevator*, *Ur. (Ura.) calosomata* group sp B, *Ur. (Ura.) coatzacoalcos*.
66. Panama, Tocumen, Cerro Azul, "La Zumbadora," 600m; 7 Feb 63, AQ. Aroid leaf axils (*Dief-fenbachia*) in forest; partial shade. *Tr. (subg. A) ulopus*, *Wy. (Prs.) complosa*.
67. Panama, Tocumen, Cerro Azul, "La Zumbadora," 600m; 7 Feb 63, AQ. Treehole in forest; partial shade. *An. (Ano.)* sp undetermined, *Cx. (Cux.) mollis*, *Cx. (Mel.)* sp 38.
68. Panama, Tocumen, Cerro Azul, "La Zumbadora," 600m; 7 Feb 63, AQ. Epiphytic bromeliads in forest; 13m above ground. *Co.* sp undetermined, *Cx. (Mcx.) ?jenningsi* group, *Wy. (Hys.)* sp D, *Wy. (Hys.)* sp J, *Wy. (Hys.)* sp undetermined.
69. Panama, Tocumen, Cerro Azul, "La Zumbadora," 600m; 8 Feb 63, AQ. Small ground pools along stream in forest; water clear; partial shade. *An. (Nys.)* sp undetermined.
70. Panama, Tocumen, Cerro Azul, "La Zumbadora," 600m; 8 Feb 63, AQ. Small ground pool under fallen log in forest; water muddy; deep shade. *Ur. (Ura.)* sp near *typhlosomata*.
71. Panama, Tocumen, Cerro Azul, "La Zumbadora," 600m; 8 Feb 63, AQ. Artificial containers (bottles) in forest clearing; water clear; full sun. *Li. durhamii*, *Wy. (Tri.)* sp undetermined.
72. Panama, Tocumen, Cerro Azul, "La Zumbadora," 600m; 8 Feb 63, AQ. Marantaceae leaf axils (*Calathea insignis*) in forest. *Tr. (subg. A) ulopus*, *Wy. (Prs.) complosa*.
73. Panama, Tocumen, Cerro Azul, "La Zumbadora," 600m; 8 Feb 63, AQ. Stream pool in forest; water clear, with moderate current. *An. (Nys.)* sp undetermined, *Cx. (Cux.) declarator* group, *Cx. (Mel.) elevator*, *Dx.* sp undetermined.
74. Panama, Tocumen, Cerro Azul, "La Zumbadora," 600m; 8 Feb 63, AQ. Aroid leaf axils (*Dief-fenbachia*) in forest. *Tr. (subg. A) ulopus*, *Wy. (Prs.) complosa*, *Wy. (subg. D) chalcocephala*.

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75. Panama, Tocumen, Cerro Azul, "La Zumbadora," 600m; 8 Feb 63, AQ. Streamside rockholes in forest; water dark; partial shade. *An. (Ano.) eiseni*, *Cx. (Cux.) declarator* group, *Cx. (Cux.) interrogator*, *Cx. (Cux.) mollis*, *Cx. (Lut.)* sp undetermined, *Cx. (Mel.) ?elevator*, *Ur. (Ura.) calosomata* group ?sp B.
76. Panama, Tocumen, Cerro Azul, "La Zumbadora," 600m; 8 Feb 63, AQ. Streamside rockhole; water clear. *Cx. (Cux.) corniger*, *Cx. (Cux.) coronator* group, *Cx. (Cux.) declarator* group.
77. Panama, Tocumen, Cerro Azul, "La Zumbadora," 600m; 8 Feb 63, AQ. Streamside rockhole in forest; water clear; full sun. *An. (Ano.) apicimacula*, *An. (Ano.) punctimacula*, *Cx. (Cux.) coronator* group, *Cx. (Mel.) conspirator*.
78. Panama, Tocumen, Cerro Azul, "La Zumbadora," 600m; 8 Feb 63, AQ. Epiphytic bromeliads (*Tillandsia*) in forest; 13m above ground. *An. (Ker.) neivai*, *Cx. (Mcx.) jenningsi* group, *Wy. (Hys.)* sp undetermined.
79. Panama, Tocumen, Cerro Azul, "La Zumbadora," 600m; 9 Feb 63, AQ. Treehole in forest; 1m above ground. *Or. fascipes*.
80. Panama, Tocumen, Cerro Azul, "La Zumbadora," 600m; 9 Feb 63, AQ. Terrestrial bromeliads (*Ananas magdalenae*) in second growth. *Wy. (Wyo.) pertinans* group sp P, *Wy. (Wyo.) pertinans* group sp undetermined.
81. Panama, Tocumen, Cerro Azul, "La Zumbadora," 600m; 9 Feb 63, AQ. Treehole in fallen log in second growth; full sun. *Cx. (Cux.) mollis*.
82. Panama, Tocumen, Cerro Azul, "La Zumbadora," 600m; 10 Feb 63, AQ. Small ground pool in pasture; water clear; abundant grass; partial shade. *An. (Nys.) argyritarsis*, *Ur. (Ura.) geometrica*.
83. Panama, Tocumen, Cerro Azul, "La Zumbadora," 600m; 10 Feb 63, AQ. Small ground pools (hoof prints) in grassy pasture; full sun. *An. (Nys.) argyritarsis*, *Cx. (Cux.) coronator* group, *Ur. (Ura.) calosomata* group sp B, *Ur. (Ura.)* sp near *typhlosomata*.
84. Panama, Tocuman, Cerro Azul, "La Zumbadora," 600m; 10 Feb 63, AQ. Aroid leaf axils (*Dief-fenbachia*) in second growth. *Tr. (subg. A) ulopus*, *Wy. (Prs.) complosa*, *Wy. (subg. D) chalcocephala*.
85. Panama, Tocumen, Cerro Azul, "La Zumbadora," 600m; 10 Feb 63, AQ. *Heliconia mariae* leaf axils in second growth. *Tr. (subg. A) ulopus*.
86. Panama, Tocumen, Cerro Azul, "La Zumbadora," 600m; 12 Feb 63, AQ. Artificial container (iron drum) in the open; full sun. *Cx. (Cux.) coronator* group.
87. Panama, Tocumen, "Cerro Jefe," 900m; 12 Feb 63, AQ. Epiphytic bromeliads (*Tillandsia*); 15 m above ground. *Wy. (Hys.)* sp undetermined, *Wy. (Wyo.) pertinans* group.
88. Panama, Tocumen, Cerro Azul, "La Zumbadora," 600m; 13 Feb 63, AQ. Treehole in forest; 1m above ground; deep shade. *Or. fascipes*.
89. Panama, Tocumen, Cerro Azul, "La Zumbadora," 600m; 13 Feb 63, AQ. Epiphytic bromeliads; 1-2m above ground. *Wy. (Hys.)* sp undetermined, *Wy. (Wyo.) pertinans* group.
90. Panama, Tocumen, Cerro Azul, "La Zumbadora," 600m; 13 Feb 63, AQ. Small ground pool in forest; deep shade. *Ur. (Ura.)* sp near *typhlosomata*.
91. Panama, Tocumen, Cerro Azul, "La Zumbadora," 600m; 14 Feb 63, AQ. Aroid leaf axils (*Dief-fenbachia*) in partial forest. *Wy. (Prs.) complosa*.
92. Panama, Tocumen, Cerro Azul, "La Zumbadora," 600m; 14 Feb 63, AQ. *Heliconia mariae* leaf axils in forest. *Tr. (subg. A) ulopus*, *Wy. (Din.) proviolans*, *Wy. (Prs.) complosa*, *Wy. (Prs.)* sp undetermined.
93. Panama, Tocumen, Cerro Azul, "La Zumbadora," 600m; 14 Feb 63, AQ. Small ground pool in second growth; water muddy; full sun. *Cx. (Cux.) coronator* group, *Cx. (Cux.) ?declarator* group, *Cx. (Mel.) elevator*, *Ur. (Ura.)* ?sp near *typhlosomata*.
94. Panama, Tocumen, Cerro Azul, "La Zumbadora," 600m; 15 Feb 63, AQ. Treehole in fallen log in second growth; full sun. *Cx. (Cux.) coronator* group, *Cx. (Cux.)* sp undetermined, *Hg. (Hag.) equinus*, *Hg. (Hag.) lucifer*, *Tr. (subg. A) ulopus*.
95. Panama, Tocumen, Cerro Azul, "La Zumbadora," 600m; 15 Feb 63, AQ. Treehole in second growth; 1m above ground; partial shade. No specimens.

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96. Panama, Tocumen, Cerro Azul, "La Zumbadora," 600m; 15 Feb 63, AQ. Swampy pasture; abundant grass; full sun. *An. (Nys.) argyritarsis*, *Cx. (Cux.) coronator* group, *Ur. (Ura.) calosomata* group sp B.
97. Panama, Tocumen, Cerro Azul, "La Zumbadora," 600m; 15 Feb 63, AQ. Streamside rock-holes; full sun. *Ae. (Och.) fluviatilis*, *Cx. (Cux.) corniger*, *Cx. (Cux.) coronator* group.
98. Panama, Tocumen, Cerro Azul, "La Zumbadora," 600m; 15 Feb 63, AQ. Small ground pools in second growth; water muddy; full sun. *Cx. (Cux.) coronator* group, *Cx. (Cux.) declarator* group, *Ur. (Ura.) ?calosomata* group sp B, *Ur. (Ura.) ?sp near typhlosomata*.
99. Panama, Tocumen, Cerro Azul, "La Zumbadora," 600m; 15 Feb 63, AQ. Small ground pool in cattle pasture; full sun. *Cx. (Cux.) coronator* group.
100. Panama, Tocumen, Cerro Azul, "La Zumbadora," 600m; 15 Feb 63, AQ. Small ground pool near stream in second growth; partial shade. *Cx. (Cux.) coronator* group.
101. Panama, Tocumen, Cerro Azul, "La Zumbadora," 600m; 16 Feb 63, AQ. Artificial container (iron drum) in the open; water muddy; full sun. *Cx. (Cux.) coronator* group.
102. Panama, Tocumen, Cerro Azul, "La Zumbadora," 600m; 16 Feb 63, AQ. Streamside rock-holes in second growth; water muddy; partial shade. *An. (Nys.) argyritarsis*, *Cx. (Cux.) coronator* group, *Ur. (Ura.)* sp undetermined.
103. Panama, Tocumen, Cerro Azul, "La Zumbadora," 600m; 17 Feb 63, AQ. Treehole in second growth; 1m above ground; water muddy; full sun. *Cx. (Cux.) coronator* group, *Cx. (Cux.) declarator* group.
104. Panama, Tocumen, Cerro Azul, "La Zumbadora," 600m; 17 Feb 63, AQ. Small ground pool in second growth; water clear; full sun. *An. (Nys.) argyritarsis*, *Cx. (Cux.) coronator* group.
105. Panama, Tocumen, Cerro Azul, "La Zumbadora," 600m; 17 Feb 63, AQ. Small ground pools (hoof prints) in pasture; water muddy; full sun. *Cx. (Cux.) coronator* group, *Ur. (Ura.)* sp near *typhlosomata*.
106. Panama, Tocumen, Cerro Azul, "La Zumbadora," 600m; 17 Feb 63, AQ. Swampy pasture; water muddy; full sun. *Cx. (Cux.) coronator* group.
107. Panama, Tocumen, Cerro Azul, "La Zumbadora," 600m; 17 Feb 63, AQ. Fallen royal palm spathe in forest; deep shade. *Tr. (Trc.) digitatum*.
108. Panama, Tocumen, Cerro Azul, "La Zumbadora," 600m; 18 Feb 63, AQ. Streamside rock-holes; water dark; partial shade. *An. (Ano.) apicimacula*, *Cx. (Cux.) corniger*, *Cx. (Cux.) coronator* group, *Cx. (Cux.) declarator* group, *Cx. (Cux.) mollis*, *Cx. (Lut.) allostigma*, *Cx. (Mel.) conspirator*, *Cx. (Mel.) elevator*.
109. Panama, Tocumen, Cerro Azul, "La Zumbadora," 600m; 18 Feb 63, AQ. Treehole in forest; water muddy; deep shade. *Cx. (Cux.)* sp undetermined, *Or. fascipes*, *Tr. (Trc.) digitatum*.
110. Panama, Tocumen, Cerro Azul, "La Zumbadora," 600m; 18 Feb 63, AQ. Treehole near stream in forest; 0.5m above ground; water dark; deep shade. No specimens.
111. Panama, Tocumen, Cerro Azul, "La Zumbadora," 600m; 18 Feb 63, AQ. Streamside rock-holes in second growth; water clear; partial shade. *An. (Nys.)* sp undetermined, *Cx. (Cux.) mollis*, *Ur. (Ura.) coatzacoalcos*.
112. Panama, Tocumen, Cerro Azul, "La Zumbadora," 600m; 18 Feb 63, AQ. Aroid leaf axils (*Dieffenbachia*) near stream. *Tr. (subg. A) ulopus*, *Wy. (Prs.) complosa*, *Wy. (subg. D) chalconecephala*.
113. Panama, Tocumen, Cerro Azul, "La Zumbadora," 600m; 18 Feb 63, AQ. Treehole in fallen log near stream; water dark; full sun. *Cx. (Cux.) coronator* group, *Cx. (Cux.) ?declarator* group, *Cx. (Cux.) mollis*, *Cx. (Mel.) ?conspirator*.
114. Panama, Tocumen, Cerro Azul, "La Zumbadora," 600m; 18 Feb 63, AQ. Streamside rock-holes in forest; water muddy; partial shade. *Cx. (Cux.) coronator* group, *Cx. (Mel.) jubifer*.
115. Panama, Tocumen, Cerro Azul, "La Zumbadora," 600m; 18 Feb 63, AQ. Swampy pasture; abundant grass; partial shade. *Cx. (Cux.) coronator* group, *Cx. (Cux.) declarator* group, *Cx. (Cux.)* sp undetermined, *Ur. (Ura.) ?calosomata* group sp B.
116. Panama, Tocumen, Cerro Azul, "La Zumbadora," 600m; 18 Feb 63, AQ. Large ground pool in second growth; water muddy; no aquatic vegetation; full sun. *Cx. (Mel.) jubifer*.

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117-170. Collections made in Puerto Obaldia, Darien; both records and specimens lost.

171. Bocas del Toro, Punta de Pena, Cerro Guayabo, on Tres de Noviembre trail just N of continental divide, "La Zorra" (17PLV6372), ?1500m; 5 Apr 63, AQ. Aroid leaf axils (*Dieffenbachia*) in forest; full sun. *Ae. (How.) brevis* (holotype).

172. Bocas del Toro, Punta de Pena, Cerro Guayabo, on Tres de Noviembre trail just N of continental divide, "La Zorra" (17PLV6372), ?1500m; 5 Apr 63, AQ. Terrestrial bromeliads in forest. *Ae. (How.) spinosus*, *Cx. (Mca.) erethydonfer*, *Cx. (Mcx.)* sp undetermined, *Cx. (subg. B)* sp 46, *Wy. (Wyo.) abebela*.

173. Bocas del Toro, Punta de Pena, Cerro Guayabo, on Tres de Noviembre trail just N of continental divide, "La Zorra" (17PLV6372), ?1500m; 5 Apr 63, AQ. Terrestrial bromeliads in second growth; full sun. *An. (Ker.) pholidotus* (holotype), *Co.* sp undetermined, *Cx. (Mca.) erethydonfer*, *Cx. (Mcx.)* sp undetermined, *Cx. (subg. B)* sp 46, *Wy. (Nuz.)* sp 24, *Wy. (Wyo.) abebela*.

174. Bocas del Toro, Punta de Pena, Cerro Guayabo, on Tres de Noviembre trail just N of continental divide, "La Zorra" (17PLV6372), ?1500m; 5 Apr 63, AQ. Adults resting in forest; 1000hrs. *Ae. (How.) quadrivittatus*, *Cx. (Mca.) erethydonfer*, *Cx. (Mcx.)* sp undetermined, *Cx. (subg. B)* sp 46.

175. Bocas del Toro, Punta de Pena, Cerro Guayabo, on Tres de Noviembre trail just N of continental divide, "La Zorra" (17PLV6372), ?1500m; 5 Apr 63, AQ. Trap (Shannon with lantern) in forest; 2.5 m above ground; 1830-1930hrs. *Ae. (How.) quadrivittatus*, *Cx. (Cux.)* sp undetermined, *Cx. (subg. B)* sp 46.

176. Bocas del Toro, Punta de Pena, Cerro Guayabo, on Tres de Noviembre trail just N of continental divide, "La Zorra" (17PLV6372), ?1500m; 6 Apr 63, AQ. Epiphytic bromeliads in forest; 6m above ground. *Ae. (How.) allotecnnon*, *Ae. (How.) spinosus*, *An. (Ker.) pholidotus*, *Cx. (Mca.) erethydonfer*, *Cx. (subg. B)* sp 46, *Wy. (Nuz.)* sp 24, *Wy. (Wyo.) abebela*.

177. Bocas del Toro, Punta de Pena, Cerro Guayabo, on Tres de Noviembre trail just N of continental divide, "La Zorra" (17PLV6372), ?1500m; 6 Apr 63, AQ. Terrestrial bromeliads in second growth. *Cx. (Mca.) erethydonfer*, *Wy.* sp 74.

178. Bocas del Toro, Punta de Pena, Cerro Guayabo, on Tres de Noviembre trail just N of continental divide, "La Zorra" (17PLV6372), ?1500m; 6 Apr 63, AQ. Aroid leaf axils (*Dieffenbachia*) in forest; partial shade. *Ae. (How.) brevis*, *Co.* sp undetermined, *Cx. (Mca.) erethydonfer*, *Wy. (Nuz.)* sp 24, *Wy. (Prs.) complosa*.

179. Bocas del Toro, Punta de Pena, Cerro Guayabo, on Tres de Noviembre trail just N of continental divide, "La Zorra" (17PLV6372), ?1500m; 7 Apr 63, AQ. Epiphytic bromeliads in cloud forest; less than 3m above ground. *Ae. (How.) allotecnnon*, *Ae. (How.) spinosus*, *Cx. (Mca.) erethydonfer*, *Cx. (subg. B)* sp 46.

180. Bocas del Toro, Punta de Pena, Cerro Guayabo, on Tres de Noviembre trail at continental divide, "La Sierra" (17PLV6271), ?1800m; 8 Apr 63, AQ. Epiphytic bromeliads in cloud forest; 3m above ground. *Ae. (How.) allotecnnon*, *Ae. (How.) spinosus*, *Cx. (Mca.) erethydonfer*, *Cx. (subg. B)* sp 46.

181. Bocas del Toro, Punta de Pena, Cerro Guayabo, on Tres de Noviembre trail at continental divide, "La Sierra" (17PLV6271), ?1800m; 8 Apr 63, AQ. Adult attracted to man in forest; 3m above ground; 0900-1300hrs. *Ae. (How.) spinosus*.

182. Bocas del Toro, Punta de Pena, Cerro Guayabo, on Tres de Noviembre trail just N of continental divide, "La Zorra" (17PLV6372), ?1500m; 8 Apr 63, AQ. Trap (Shannon with lantern) in forest; 0700-2000hrs. *Cx. (Mca.) erethydonfer*.

183. Bocas del Toro, Punta de Pena, Cerro Guayabo, on Tres de Noviembre trail just N of continental divide, "La Zorra" (17PLV6372), ?1500m; 9 Apr 63, AQ. Aroid leaf axils (*Dieffenbachia*) in forest; partial shade. *Ae. (How.) allotecnnon*, *Ae. (How.) brevis*, *Co.* sp undetermined.

184. Bocas del Toro, Punta de Pena, Cerro Guayabo, on Tres de Noviembre trail just N of continental divide, "La Zorra" (17PLV6372), ?1500m; 9 Apr 63, AQ. Trap (Shannon with lantern) in forest; 1830-2030hrs. *Ae. (How.) spinosus*.

185. Bocas del Toro, Punta de Pena, Cerro Guayabo, on Tres de Noviembre trail just N of continental divide, "La Zorra" (17PLV6372), ?1500m; 10 Apr 63, AQ. Adults attracted to man in forest; 10m above ground; 0900-1112hrs. *Ae. (How.) brevis*, *Ae. (How.) spinosus*.

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186. Bocas del Toro, Punta de Pena, on Tres de Noviembre trail, "Pala del Carano" (17PLV6776), 600m; 11 Apr 63, AQ. Fallen banana leaf in partial forest; water clear; partial shade. *Cx. (Cux.)* sp undetermined, *Li. asulleptus*.
187. Bocas del Toro, Punta de Pena, 11km S of on Tres de Noviembre trail, "Filon" (17PLV6775), 700m; 13 Apr 63, AQ. Fallen palm spathe in forest; water dark; partial shade. *Cx. (Car.) secundus*, *Tr. (Trc.) digitatum*.
188. Bocas del Toro, Punta de Pena, about 4km S of Catalina, Buena Vista (17PLV6876), 300m; 13 Apr 63, AQ. Small ground pools (hoof prints) in forest; partial shade. *Cx. (Cux.) corniger*, *Cx. (Cux.) ?declarator* group, *Cx. (Cux.) interrogator*, *Cx. (Lut.) allostigma*.
189. Bocas del Toro, Punta de Pena, "Chiriquicito" (17PLV6985), 30m; 14 Apr 63, AQ. Coconut shell in domestic area; water clear. *Li. durhamii*.
190. Bocas del Toro, Punta de Pena, "Chiriquicito" (17PLV6985), 30m; 14 Apr 63, AQ. Coconut shells in domestic area; water muddy; partial shade. *Cx. (Cux.) declarator* group, *Cx. (Cux.) interrogator*.
191. Bocas del Toro, Punta de Pena, "Chiriquicito" (17PLV6985), 30m; 14 Apr 63, AQ. Terrestrial bromeliads (pineapple) in domestic area; full sun. *Cx. (Mcx.)* sp undetermined, *Tx. (Lyn.) ?superbus*, *Wy. (Hys.)* sp undetermined.
192. Bocas del Toro, Punta de Pena, "Chiriquicito" (17PLV6985), 30m; 14 Apr 63, AQ. Aroid leaf axils (*Xanthosoma violaceum*) in domestic area; full sun. *Tr. (subg. A) ulopus*.
193. Bocas del Toro, Chiriqui Grande, Punta de Pena (17PLV6985), 30m; 14 Apr 63, AQ. Aroid leaf axils (*Dieffenbachia*) in the open. *Tr. (subg. A) ulopus*.
194. Bocas del Toro, Chiriqui Grande, Punta de Pena (17PLV6985), 30m; 14 Apr 63, AQ. Epiphytic bromeliads in second growth; 2.5m above ground. *Cx. (Mcx.)* sp undetermined, *Tx. (Lyn.) superbus*, *Wy. (Wyo.) melanopus*, *Wy. (Wyo.)* sp 25.
195. Bocas del Toro, Chiriqui Grande, Punta de Pena (17PLV6985), 30m; 14 Apr 63, AQ. Artificial container (piece of iron) near stream; water green; full sun. *Cx. (Cux.) coronator* group.
196. Bocas del Toro, about 3km S of Punta de Pena, El Guabo (17PLV6981), 60m; 14 Apr 63, AQ. *Heliconia* flower bracts in second growth; partial shade. *Tx. (Lyn.) superbus*, *Tr. (subg. A) ulopus*, *Wy. (Dec.) pseudopecten* group, *Wy. (Dec.) ulocoma* group, *Wy. (subg. D) chalcocephala*.
197. Bocas del Toro, about 3km S of Punta de Pena, El Guabo (17PLV6981), 60m; 14 Apr 63, AQ. Epiphytic bromeliads in partial forest; partial shade. *Cx. (Mcx.)* spp undetermined, *Tx. (Lyn.) superbus*, *Wy. (Hys.)* sp G, *Wy. (Hys.)* sp undetermined, *Wy. (Wyo.)* sp 25.
198. Bocas del Toro, about 3km S of Punta de Pena, El Guabo (17PLV6981), 60m; 14 Apr 63, AQ. Epiphytic bromeliads in partial forest; deep shade. *Co.* sp undetermined, *Cx. (Mcx.) daumastocampa*, *Cx. (Mcx.)* spp undetermined, *Tx. (Lyn.) superbus*, *Wy. (Hys.)* sp undetermined.
199. Bocas del Toro, about 3km S of Punta de Pena, El Guabo (17PLV6981), 60m; 14 Apr 63, AQ. Aroid leaf axils (*Dieffenbachia*) in second growth; deep shade. *Tr. (subg. A) ulopus*, *Wy. (Prs.) complosa*.
200. Bocas del Toro, about 3km S of Punta de Pena, El Guabo (17PLV6981), 60m; 14 Apr 63, AQ. *Heliconia mariae* flower bracts in second growth. *Tx. (Lyn.) superbus*, *Wy. (Dec.) pseudopecten* group, *Wy. (Dec.) ulocoma* group, *Wy. (Prs.) jocosa*, *Wy. (subg. D) chalcocephala*.
201. Bocas del Toro, about 3km S of Punta de Pena, El Guabo (17PLV6981), 60m; 14 Apr 63, AQ. Aroid leaf axils (*Dieffenbachia*) in second growth; deep shade. *Tr. (subg. A) ulopus*, *Wy. (Prs.) complosa*.
202. Bocas del Toro, about 3km S of Punta de Pena, El Guabo (17PLV6981), 60m; 15 Apr 63, AQ. Aroid leaf axils (*Xanthosoma violaceum*) in second growth; full sun. *Tr. (subg. A) ulopus*.
203. Bocas del Toro, about 3km S of Punta de Pena, El Guabo (17PLV6981), 60m; 15 Apr 63, AQ. Streamside rockholes; water clear; full sun. *Cx. (Cux.) coronator* group, *Cx. (Cux.) ?declarator* group.
204. Bocas del Toro, about 3km S of Punta de Pena, El Guabo (17PLV6981), 60m; 15 Apr 63, AQ. Marantaceae flower bracts in second growth; full sun. *Wy. (Dec.)* sp undetermined.
205. Bocas del Toro, about 3km S of Punta de Pena, El Guabo (17PLV6981), 60m; 15 Apr 63, AQ. Treehole in fallen log in second growth; 1.5m above ground; water dark; deep shade. *Cx. (Cux.)* sp undetermined, *Hg. (Hag.) lucifer*, *Ur. (Ura.) ?coatzacoalcos*.
206. Bocas del Toro, about 3km S of Punta de Pena, El Guabo (17PLV6981), 60m; 15 Apr 63, AQ. Streamside rockholes; water muddy; deep shade. *Cx. (Cux.) corniger*, *Cx. (Cux.) mollis*.

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207. Bocas del Toro, about 3km S of Punta de Pena, El Guabo (17PLV6981), 60m; 15 Apr 63, AQ. Adults resting in second growth; morning. *Ae. (Och.) angustivittatus*, *Cx. (Mel.)* sp undetermined, *Cx. (Mcx.)* sp undetermined, *Wy.* sp undetermined.
208. Bocas del Toro, about 3km S of Punta de Pena, El Guabo (17PLV6981), 60m; 16 Apr 63, AQ. Adults resting in second growth; morning. *Ae. (Och.) angustivittatus*, *Ps. (Gra.) cingulata* group, *Tr. (subg. A) ulopus*, *Wy.* sp undetermined.
209. Bocas del Toro, about 3km S of Punta de Pena, El Guabo (17PLV6981), 60m; 16 Apr 63, AQ. *Heliconia* flower bracts in second growth; full sun. *Or. phyllozoa*, *Tx. (Lyn.) superbus*, *Wy. (Dec.) pseudopecten* group, *Wy. (Dec.) ulocoma* group, *Wy. (subg. D) chaltocephala*.
210. Bocas del Toro, Punta de Pena, Rio Chiriqui Mali (joins Rio Guabo about 6km S of Punta de Pena), 100m or more; 16 Apr 63, AQ. Stream margin; water clear, with moderate current; full sun. *An. (Nys.)* sp undetermined, *Cx. (Mel.)* sp undetermined.
211. Bocas del Toro, about 3km S of Punta de Pena, El Guabo (17PLV6981), 60m; 16 Apr 63, AQ. Small ground pools (hoof prints) in second growth; water dark; full sun. *Cx. (Cux.) coronator* group.
212. Bocas del Toro, about 3km S of Punta de Pena, El Guabo (17PLV6981), 60m; 16 Apr 63, AQ. Terrestrial bromeliads in second growth. *Cx. (Mcx.)* spp undetermined, *Or. phyllozoa*, *Tx. (Lyn.) superbus*, *Wy. (Wyo.) ?melanopus*, *Wy. (Wyo.) pertinans* group.
213. Bocas del Toro, Punta de Pena, "Kaysan"; 16 Apr 63, AQ. Epiphytic bromeliads in second growth; 4m above ground; full sun. *Cx. (Mcx.)* sp undetermined, *Tx. (Lyn.) superbus*, *Wy. (Hys.)* sp undetermined, *Wy. (Wyo.)* sp 25.
214. Bocas del Toro, Punta de Pena, "Kaysan"; 16 Apr 63, AQ. Aroid leaf axils (*Dieffenbachia*) in partial forest; full sun. *Tr. (subg. A) ulopus*, *Wy. (Prs.) complosa*.
215. Bocas del Toro, Punta de Pena, "Kaysan"; 16 Apr 63, AQ. Epiphytic bromeliads in partial forest; 4.5km above ground; partial shade. *Cx. (Mcx.) daumastocampa*, *Cx. (Mcx.)* spp undetermined, *Or. phyllozoa*, *Tx. (Lyn.) superbus*, *Wy. (Hys.)* sp undetermined.
216. Bocas del Toro, Punta de Pena, "Kaysan"; 16 Apr 63, AQ. Terrestrial bromeliads in second growth; deep shade. *Cx. (Mcx.)* sp undetermined, *Wy. (Hys.)* sp undetermined, *Wy. (Wyo.) pertinans* group.
217. Bocas del Toro, Punta de Pena, "Kaysan"; 16 Apr 63, AQ. Small ground pools along stream; water muddy; full sun. *Ae. (Och.) angustivittatus*, *Cx. (Cux.) ?declarator* group.
218. Bocas del Toro, Punta de Pena, "Kaysan"; 16 Apr 63, AQ. Treehole near stream; 1m above ground; water muddy; deep shade. *Cx. (Cux.) mollis*, *Ur. (Ura.)* sp undetermined.
219. Bocas del Toro, Punta de Pena, "Chiriquicito" (17PLV6985), 30m; 16 Apr 63, AQ. Trap (Shannon with lantern) in partial forest. *An. (Nys.) aquasalis*, *Cq. (Rhy.) fasciolata*, *Cq. (Rhy.) nigricans*, *Cx. (Cux.)* sp undetermined, *Cx. (Mel.)* sp undetermined, *Wy.* sp undetermined.
220. Bocas del Toro, Chiriqui Grande, Mata de Cacao (17PLV7489), 5m; 17 Apr 63, AQ. Adults resting in forest; 0700-1230hrs. *Ae. (Och.) angustivittatus*, *Ae. (Och.) serratus* group, *An. (Ano.)* sp undetermined, *Cq. (Rhy.) arribalzagai*, *Cx. (Cux.)* sp undetermined, *Cx. (Mel.)* sp undetermined, *Cx. (Mcx.)* sp undetermined, *Li. asulleptus*, *Or. phyllozoa*, *Ps. (Gra.) cingulata* group, *Ps. (Jan.) ferox*, *Tr. (subg. A) leucopus*, *Tr. (subg. A) ulopus*, *Ur. (Ura.) pallidoventer* series, *Wy. (Dec.)* sp undetermined, *Wy. (Hys.)* sp undetermined, *Wy. (Prs.) complosa*, *Wy. spp* undetermined.
221. Bocas del Toro, Chiriqui Grande, Mata de Cacao (17PLV7489), 5m; 17 Apr 63, AQ. Aroid leaf axils (*Dieffenbachia*) in second growth; full sun. *Tr. (subg. A) ulopus*, *Wy. (Prs.) complosa*.
222. Bocas del Toro, Chiriqui Grande, Mata de Cacao (17PLV7489), 5m; 17 Apr 63, AQ. Fallen cacao shell in partial forest; partial shade. *Li. asulleptus*, *Tr. (Trc.) digitatum*.
223. Bocas del Toro, Chiriqui Grande, Mata de Cacao (17PLV7489), 5m; 17 Apr 63, AQ. Artificial container (old canoe) in domestic area; water clear; partial shade. *Cx. (Cux.) corniger*, *Cx. (Cux.) mollis*, *Tr. (Trc.) digitatum*.
224. Bocas del Toro, Chiriqui Grande, Mata de Cacao (17PLV7489), 5m; 17 Apr 63, AQ. *Heliconia* flower bracts in partial forest; partial shade. *Tr. (subg. A) ulopus*, *Wy. (Dec.) pseudopecten* group, *Wy. (subg. D) chaltocephala*.

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225. Bocas del Toro, Punta de Pena, "Chiriquicito" (17PLV6985), 30m; 17 Apr 63, AQ. Trap (Shannon with lantern); 1900-2100hrs. *Cq. (Rhy.) fasciolata*, *Cx. (Mel.) chrysonotum*, *Cx. (Mel.)* sp undetermined.

226. Bocas del Toro, Chiriqui Grande, Punta de Pena (17PLV6985), 30m; 18 Apr 63, AQ. Adults resting in second growth; 0700-2400hrs. *Ae. (Och.) angustivittatus*, *Cx. (Cux.)* sp undetermined, *Cx. (Mel.)* sect. *Mel.*, *Cx. (Mel.)* sp undetermined, *Cx. (Mcx.)* sp undetermined, *Li. asulleptus*, *Or. phyllozoa*, *Ps. (Gra.) cingulata* group, *Ps. (Jan.) ferox*, *Ur. (Ura.) pallidoventer* series, *Wy.* spp undetermined.

227. Bocas del Toro, Punta de Pena, "Kaysan"; 18 Apr 63, AQ. Aroid leaf axils (*Dieffenbachia*) in forest; deep shade. *Tr. (subg. A) ulopus*, *Wy. (Prs.) complosa*.

228. Bocas del Toro, Punta de Pena, "Kaysan"; 18 Apr 63, AQ. Cut or broken bamboo in forest; water clear; deep shade. *Co.* sp undetermined, *Cx. (Cux.)* sp undetermined, *Li. asulleptus*, *Wy. (Pen.) arthrostroma*.

229. Bocas del Toro, Punta de Pena, "Kaysan"; 18 Apr 63, AQ. Epiphytic bromeliads in second growth; 3m above ground; partial shade. *An. (Ker.) neivai*, *Or. phyllozoa*, *Wy. (Hys.)* sp undetermined, *Wy. (Wyo.) pertinans* group.

230. Bocas del Toro, Punta de Pena, "Kaysan"; 18 Apr 63, AQ. Epiphytic bromeliads in second growth; 4m above ground; partial shade. *An. (Ker.) neivai*, *Cx. (Mcx.)* sp undetermined, *Wy. (Wyo.) melanopus*, *Wy. (Wyo.) pertinans* group sp H, *Wy. (Wyo.) pertinans* group sp R, *Wy. (Wyo.) pertinans* group sp undetermined.

231. Bocas del Toro, Punta de Pena, "Kaysan"; 18 Apr 63, AQ. *Heliconia* flower bracts in second growth; full sun. *Cx. (Mcx.) pleuristriatus* group, *Tx. (Lyn.) superbus*, *Wy. (Dec.) pseudopecten* group, *Wy. (subg. D) chalcocephala*.

232. Bocas del Toro, Punta de Pena, "Chiriquicito" (17PLV6985), 30m; 19 Apr 63, AQ. Aroid leaf axils in second growth; full sun. *Tr. (subg. A) ulopus*.

233. Bocas del Toro, Punta de Pena, "Chiriquicito" (17PLV6985), 30m; 19 Apr 63, AQ. Fallen palm spathes in forest; water clear; deep shade. *Cx. (Cux.)* sp undetermined, *Li. asulleptus*.

234. Bocas del Toro, Punta de Pena, "Chiriquicito" (17PLV6985), 30m; 19 Apr 63, AQ. Treehole in partial forest; 1m above ground; water dark; full sun. *Cx. (Cux.) coronator* group, *Cx. (Cux.) mollis*, *Hg. (Hag.) lucifer*, *Tx. (Lyn.) hypoptes*.

235. Bocas del Toro, Punta de Pena, "Chiriquicito" (17PLV6985), 30m; 19 Apr 63, AQ. *Heliconia* flower bracts in second growth; full sun. *Tx. (Lyn.) superbus*, *Wy. (Dec.) ?eloisa*, *Wy. (Dec.) ulocoma* group, *Wy. (subg. D) chalcocephala*.

236. Bocas del Toro, Punta de Pena, "Chiriquicito" (17PLV6985), 30m; 19 Apr 63, AQ. Small ground pools in second growth; water clear; full sun. *An.* sp undetermined, *Cx. (Cux.) coronator* group.

237. Bocas del Toro, about 3km S of Punta de Pena, El Guabo (17PLV6981), 60m; 19 Apr 63, AQ. Adults resting in second growth; 0700-1300hrs. *Ae. (Och.) angustivittatus*, *Cq. (Rhy.) fasciolata*, *Cx. (Cux.)* sp undetermined, *Cx. (Mel.)* sp undetermined, *Cx. (Mcx.)* sp undetermined, *Sa. (Sbn.)* sp undetermined, *Ur. (Ura.) pallidoventer* series, *Wy. (subg. D) chalcocephala*, *Wy.* spp undetermined.

238. Bocas del Toro, Punta de Pena, "Kaysan"; 19 Apr 63, AQ. Swampy river; water clear, with moderate current; full sun. *An. (Ano.) ?apicimacula*, *An. (Ano.)* sp undetermined, *An. (Nys.) albimanus*, *An. (Nys.) ?strodei*, *An. (Nys.)* sp undetermined.

239. Bocas del Toro, Punta de Pena, "Kaysan"; 19 Apr 63, AQ. Aroid leaf axils (*Dieffenbachia*) in second growth; full sun. *Tr. (subg. A) ulopus*, *Wy. (Prs.) complosa*.

240. Bocas del Toro, Punta de Pena, "Kaysan"; 19 Apr 63, AQ. Artificial container (iron barrel) in second growth; water clear; deep shade. *Cx. (Cux.) coronator* group.

241. Bocas del Toro, Punta de Pena, "Kaysan"; 19 Apr 63, AQ. *Heliconia* flower bracts in second growth; full sun. *Tr.* sp undetermined, *Wy. (Dec.) pseudopecten* group.

242. Bocas del Toro, Punta de Pena, "Kaysan"; 19 Apr 63, AQ. Cut or broken bamboo in second growth; 1m above ground; water clear; deep shade. *Li. asulleptus*, *Li. durhamii*.

243. Bocas del Toro, Chiriqui Grande, Mata de Cacao (17PLV7489), 5m; 19 Apr 63, AQ. Trap (Shannon with lantern) in partial forest; 1800-1930hrs. *Ae. (Och.) angustivittatus*, *Cq. (Rhy.) fasciolata*, *Cx. (Cux.)* sp undetermined, *Cx. (Mel.)* sp 39.



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244. Bocas del Toro, Punta de Pena, "Kaysan"; 20 Apr 63, AQ. Adults resting in partial forest; 0700-1300hrs. *Ae. (Och.) serratus* group, *An. (Ano.)* sp undetermined, *Cq. (Rhy.) arribalzagai*, *Cq. (Rhy.) fasciolata*, *Cx. (Cux.)* sp undetermined, *Cx. (Mel.)* sp undetermined, *Cx. (Mcx.)* sp undetermined, *Ps. (Gra.) cingulata* group, *Tr. (subg. A) ulopus*, *Ur. (Ura.) pallidoventer* series, *Wy. (Prs.) complosa*, *Wy. (subg. D) chalconephala*, *Wy.* spp undetermined.
245. Bocas del Toro, Punta de Pena, "Chiriquicito" (17PLV6985), 30m; 20 Apr 63, AQ. Treehole (in fence post tree) in second growth; water clear; full sun. *Cx. (Cux.) mollis*, *Hg. (Hag.) lucifer*, *Wy. (Tri.) aporonoma*.
246. Bocas del Toro, Chiriqui Grande, Mata de Cacao (17PLV7489), 50m; 21 Apr 63, AQ. Adults resting in second growth; 0930-1000hrs. *Cq. (Rhy.) arribalzagai*, *Cq. (Rhy.) fasciolata*, *Cx. (Mel.) chrysonotum*, *Cx. (Mel.) opisthopus*, *Cx. (Mel.) taeniopus* group, *Cx. (Mel.)* sp 39, *Cx. (Mel.)* sp undetermined, *Cx. (Mcx.)* sp undetermined, *Or. phyllozoa*, *Tr. (subg. A) ulopus*, *Wy. (Hys.)* sp undetermined, *Wy.* sp undetermined.
247. Bocas del Toro, Punta de Pena, "Chiriquicito" (17PLV6985), 30m; 21 Apr 63, AQ. Adults attracted to man in forest; 12m above ground; 1100-1400hrs. *Sa. (Sab.) cyaneus*, *Sa. (Sab.) tarsopus*, *Tr. (subg. A) leucopus*, *Wy.* spp undetermined.
248. Bocas del Toro, Punta de Pena, "Chiriquicito" (17PLV6985), 30m; 21 Apr 63, AQ. Trap (Shannon with lantern) in forest; 1800-2000hrs. *Cq. (Rhy.) fasciolata*, *Cx. (Cux.)* sp undetermined, *Cx. (Mel.) chrysonotum*, *Cx. (Mel.)* sp undetermined, *Ma. (Man.)* sp undetermined, *Ur. (Ura.) geometrica*.
249. Bocas del Toro, Punta de Pena, "Chiriquicito" (17PLV6985), 30m; 22 Apr 63, AQ. Adults resting in forest; 0700-1100hrs. *Ae. (Och.) angustivittatus*, *An. (Ano.)* sp undetermined, *Cq. (Rhy.) arribalzagai*, *Cx. (Cux.)* sp undetermined, *Cx. (Mel.) epanastasis*, *Cx. (Mel.) opisthopus*, *Cx. (Mel.) taeniopus* group, *Cx. (Mel.)* sp 39, *Cx. (Mel.)* sp undetermined, *Cx. (Mcx.)* sp undetermined, *Ps. (Gra.) cingulata* group, *Ps. (Jan.)* sp undetermined, *Tr. (subg. A) ulopus*, *Wy. (Hys.)* sp undetermined, *Wy. (Prs.) complosa*, *Wy.* spp undetermined.
250. Bocas del Toro, Punta de Pena, "Chiriquicito" (17PLV6985), 30m; 22 Apr 63, AQ. Adults attracted to man in forest; 12m above ground; 0900-1400hrs. *Ae. (Och.) oligopistus*, *Ae. (Och.) serratus*, *Cx. (Cux.) nigripalpus*, *Hg. (Con.) clarki*, *Sa. (Sab.) cyaneus*, *Sa. (Sbn.)* sp undetermined, *Sa. (Sbo.) chloropterus*, *Tr. (subg. A) ulopus*, *Wy.* spp undetermined.
251. Bocas del Toro, Punta de Pena, "Chiriquicito" (17PLV6985), 30m; 23 Apr 63, AQ. Adults resting in forest; 0700-1300hrs. *Ae. (Och.) serratus* group, *Cq. (Rhy.) arribalzagai*, *Cq. (Rhy.) fasciolata*, *Cx. (Cux.)* sp undetermined, *Cx. (Mel.) epanastasis*, *Cx. (Mel.) spissipes*, *Cx. (Mel.) taeniopus* group, *Cx. (Mel.)* sp undetermined, *Cx. (Mcx.)* sp undetermined, *Ps. (Gra.) cingulata* group, *Ps. (Jan.)* sp undetermined, *Tr. (subg. A) ulopus*, *Wy. (Hys.)* sp undetermined, *Wy. (Prs.) complosa*, *Wy.* spp undetermined.
252. Bocas del Toro, Punta de Pena, "Chiriquicito" (17PLV6985), 30m; 23 Apr 63, AQ. Adults attracted to man in forest; 12m above ground; 0900-1400hrs. *Ps. (Gra.) cingulata* group, *Sa. (Sbo.) chloropterus*, *Tr. (subg. A) ulopus*, *Wy.* spp undetermined.
253. Bocas del Toro, Punta de Pena, "Chiriquicito" (17PLV6985), 30m; 23 Apr 63, AQ. Trap (Shannon) at edge of river; 1800-1912hrs. *An. (Ano.) aquasalis*, *Cq. (Rhy.) fasciolata*, *Cx. (Cux.) nigripalpus*, *Cx. (Mel.) chrysonotum*, *Cx. (Mel.)* sp undetermined, *Ur. (Ura.) geometrica*.
254. Bocas del Toro, Almirante, Milla 2 (17PLA4428), 10m; 26 Apr 63, AQ. Treehole in second growth; 3m above ground; water muddy; partial shade. *Hg. (Hag.) equinus*, *Hg. (Hag.) lucifer*, *Wy. (Tri.) aporonoma*.
255. Bocas del Toro, Almirante, Milla 2 (17PLA4428), 10m; 26 Apr 63, AQ. Cut or broken bamboo in second growth; 0.3m above ground; water muddy. *Cx. (Cux.)* sp undetermined, *Li. durhamii*.
256. Bocas del Toro, 1-4km W of Almirante, Quebrada Nigua, less than 40m; 27 Apr 63, AQ. Aroid leaf axils (*Dieffenbachia*) in second growth; full sun. *Tr. (subg. A) ulopus*, *Wy. (Prs.) complosa*, *Wy. (subg. D) chalconephala*.
257. Bocas del Toro, 1-4km W of Almirante, Quebrada Nigua, less than 40m; 27 Apr 63, AQ. Fallen cacao shell in second growth; water dark; deep shade. *Cx. (Cux.) mollis*, *Hg. (Hag.) lucifer*, *Li. asuleptus*, *Tr. (Trc.) digitatum*.

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258. Bocas del Toro, 1-4km W of Almirante, Quebrada Nigua, less than 40m; 27 Apr 63, AQ. *Heliconia* flower bracts in second growth; full sun. *Or. phyllozoa*, *Tx. (Lyn.) superbus*, *Wy. (Dec.) pseudopecten* group, *Wy. (subg. D) chalcocephala*.

259. Bocas del Toro, Almirante, Milla 2 (17PLA4428), 10m; 27 Apr 63, AQ. Cut or broken bamboo in forest; water clear; deep shade. *Cx. (And.) conservator*, *Cx. (And.) corrigani*, *Cx. (Car.) secundus*, *Hg. (Hag.) lucifer*, *Sa. (Sab.) cyaneus*, *Sa. (Sbn.) undosus*, *Tx. (Lyn.) sp A*, *Wy. (Pen.) arthrostigma*, *Wy. (Tri.) sp undetermined*.

260. Bocas del Toro, Almirante, "Oil Tank"; 27 Apr 63, AQ. *Heliconia* flower bracts in second growth; partial shade. *Wy. (Dec.) eloisia*, *Wy. (Dec.) pseudopecten* group, *Wy. (Dec.) ulocoma* group, *Wy. (subg. D) chalcocephala*.

261. Bocas del Toro, Almirante, "Oil Tank"; 27 Apr 63, AQ. Aroid leaf axils (*Dieffenbachia*) in second growth; deep shade. *Tr. (subg. A) ulopus*, *Wy. (Prs.) complosa*.

262. Bocas del Toro, Almirante, Milla 2 (17PLA4428), 10m; 27 Apr 63, AQ. Epiphytic bromeliads in second growth; 4.5m above ground; partial shade. *Wy. (Hys.) sp undetermined*, *Wy. (Wyo.) pertinans* group.

263. Bocas del Toro, Almirante, near sea level; 27 Apr 63, AQ. Crabholes in mangroves; water clear; full sun. *Cx. (Cux.) inflictus* group.

264. Bocas del Toro, Almirante, near sea level; 27 Apr 63, AQ. Treehole in mangroves; 1m above ground; water dark; deep shade. *Cx. (Cux.) coronator* group, *Hg. (Hag.) iridicolor*.

265. Bocas del Toro, Almirante, "Crematory"; 27 Apr 63, AQ. *Heliconia* flower bracts in second growth; deep shade. *Tx. (Lyn.) superbus*, *Tr. (subg. A) ulopus*, *Wy. (Dec.) pseudopecten* group, *Wy. (Dec.) ?ulocoma* group, *Wy. (subg. D) chalcocephala*.

266. Bocas del Toro, Almirante, "Crematory"; 27 Apr 63, AQ. Small ground pools in second growth; water clear; full sun. *Cx. (Cux.) coronator* group.

267. Bocas del Toro, Almirante, "Crematory"; 27 Apr 63, AQ. Artificial container (can) in second growth; water muddy, green; partial shade. *Cx. (Cux.) coronator* group.

268. Bocas del Toro, Almirante, farm just to SW of, "Wenan," 10m; 27 Apr 63, AQ. Artificial container (barrel) in domestic area; water clear; full sun. *Cx. (Cux.) coronator* group.

269. Bocas del Toro, Almirante, Milla 2 (17PLA4428), 10m; 27-28 Apr 63, AQ. Light trap in second growth; 3m above ground; 1900-0630hrs. *Ae. (Och.) angustivittatus*, *Cq. (Rhy.) ?fasciolata*, *Cx. (Mel.) erraticus*, *Cx. (Mel.) sp undetermined*, *Ma. (Man.) sp undetermined*, *Ur. (Ura.) lowii*, *Ur. (Ura.) sp undetermined*.

270. Bocas del Toro, 1-4km W of Almirante, Quebrada Nigua, less than 40m; 28 Apr 63, AQ. Adults resting in second growth; 0700-1000hrs. *Ae. (Och.) angustivittatus*, *Ae. (Och.) hastatus*, *Ae. (Och.) nubilus*, *Ae. (Och.) serratus*, *An. (Ano.) eiseni*, *Cq. (Rhy.) arribalzagai*, *Cx. (Cux.) spp undetermined*, *Cx. (Mel.) spp undetermined*, *Ma. (Man.) sp undetermined*, *Ps. (Gra.) cingulata* group, *Ps. (Jan.) ferox*, *Ps. (Jan.) lutzii*, *Ps. (Jan.) varipes*, *Ps. (Jan.) sp undetermined*, *Wy. (subg. D) chalcocephala*, *Wy. sp undetermined*.

271. Bocas del Toro, Almirante, "Tampico," near sea level; 28 Apr 63, AQ. Crabholes in mangroves; water muddy; deep shade. *De. epitedeus*.

272. Bocas del Toro, Almirante, "Oil tank road," near sea level; 28 Apr 63, AQ. Crabholes in second growth; water muddy; full sun. *Cx. (Cux.) inflictus* group.

273. Bocas del Toro, Almirante, "Crematory road," near sea level; 28 Apr 63, AQ. Crabholes in mangroves; water clear; full sun. *Cx. (Cux.) inflictus* group, *Cx. (Tin.) latisquama*.

274. Bocas del Toro, Almirante, "Tampico," near sea level; 28 Apr 63, AQ. Crabholes in mangroves; water muddy; full sun. *Cx. (Cux.) inflictus* group, *De. epitedeus*.

275. Bocas del Toro, Almirante, "Local farm," near sea level; 28 Apr 63, AQ. Crabholes in fruit farm; water muddy; partial shade. *Cx. (Cux.) inflictus* group, *Cx. (Tin.) latisquama*.

276. Bocas del Toro, 1-4km W of Almirante, Quebrada Nigua, less than 40m; 28 Apr 63, AQ. *Heliconia* flower bracts in second growth; full sun. *Or. phyllozoa*, *Wy. (Dec.) pseudopecten* group, *Wy. (subg. D) chalcocephala*.

277. Bocas del Toro, 1-4km W of Almirante, Quebrada Nigua, less than 40m; 28 Apr 63, AQ. Fallen cacao pods in second growth; water dark; deep shade. *Hg. (Hag.) lucifer*.

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278. Bocas del Toro, Almirante, Milla 2 (17PLA4428), 10m; 28-29 Apr 63, AQ. Light trap in second growth; 2m above ground; 1800-0600hrs. *Ad. (Ady.) squamipennis*, *Cq. (Rhy.) fasciolata*, *Cq. (Rhy.) nigricans*, *Cx. (Cux.) nigripalpus*, *Cx. (Cux.)* sp undetermined, *Cx. (Mel.) chrysonotum*, *Cx. (Mel.) epanastasis*, *Cx. (Mel.) erraticus*, *Cx. (Mel.)* ?sp 40, *Cx. (Mel.)* spp undetermined, *Ma. (Man.)* sp undetermined, *Ur. (Ura.) ?nataliae*.
279. Bocas del Toro, 1-4km W of Almirante, Quebrada Nigua, less than 40m; 29 Apr 63, AQ. *Heliconia* flower bracts in second growth; deep shade. *Or. phyllozoa*, *Tx. (Lyn.) superbus*, *Wy. (Dec.) pseudopecten* group, *Wy. (subg. D) chalcocephala*.
280. Bocas del Toro, 1-4km W of Almirante, Quebrada Nigua, less than 40m; 29 Apr 63, AQ. Marantaceae leaf axils in second growth; partial shade. *Tr. (Cte.) magnum*.
281. Bocas del Toro, 1-4km W of Almirante, Quebrada Nigua, less than 40m; 29 Apr 63, AQ. Cut or broken bamboo in second growth; water clear; partial shade. *Wy. (Pen.) arthrostigma*, *Wy. (Tri.)* sp undetermined.
282. Bocas del Toro, Almirante, "road to represa"; 29 Apr 63, AQ. Treehole in partial forest; 2m above ground; water dark. *Hg. (Hag.) equinus*, *Hg. (Hag.) iridicolor*.
283. Bocas del Toro, 1-4km W of Almirante, Quebrada Nigua, less than 40m; 29 Apr 63, AQ. Treehole in fallen tree in second growth; 1.5m above ground; water dark; full sun. *Cx. (Cux.) mollis*, *Wy. (Tri.) aporonomia*.
284. Bocas del Toro, Almirante, "behind ball ground"; 29 Apr 63, AQ. Fallen leaf (Marantaceae) in second growth; full sun. *Li. asulleptus*, *Li. durhamii*.
285. Bocas del Toro, 1-4km W of Almirante, Quebrada Nigua, less than 40m; 29 Apr 63, AQ. Marantaceae leaf axils in second growth; full sun. *Tr. (Cte.) magnum*.
286. Bocas del Toro, Almirante, "behind ball ground"; 29 Apr 63, AQ. Cut or broken bamboo in second growth; water muddy; full sun. *Li. durhamii*.
287. Bocas del Toro, Almirante, cemetery (17PLA4427), 20m; 29 Apr 63, AQ. Fallen cacao pods in second growth; water dark. *Tr. (Trc.) digitatum*.
288. Bocas del Toro, Almirante, Milla 2 (17PLA4428), 10m; 29 Apr 63, AQ. Trap (Shannon with lantern) in second growth; 2m above ground; 1830-2030hrs. *Cq. (Rhy.) fasciolata*, *Cq. (Rhy.) nigricans*, *Cx. (Ads.) amazonensis*, *Cx. (Mel.)* sp 39, *Cx. (Mel.)* sp undetermined, *Ma. (Man.)* sp undetermined, *Ps. (Jan.) ?varipes*.
289. Bocas del Toro, near Almirante; 30 Apr 63, AQ. Aroid leaf axils (*Dieffenbachia*) in second growth. *Tr. (subg. A) ulopus*.
290. Bocas del Toro, Almirante, "Crematory"; 30 Apr 63, AQ. Treehole. *Ae. (Pro.) insolitus*, *Hg. (Hag.) iridicolor*.
291. Bocas del Toro, Almirante, Milla 5 (17PLA4332), 10m; 30 Apr 63, AQ. Terrestrial bromeliads (pineapple) in second growth; full sun. *Wy. (Wyo.) pertinans* group.
292. Bocas del Toro, Almirante, Milla 6 (17PLA4333), 10m; 30 Apr 63, AQ. Treehole in fallen tree in second growth; 1m above ground; water dark; full sun. *Cx. (Cux.) ?mollis*.
293. Bocas del Toro, Almirante, farm just to SW of, "Wenan," 10m; 30 Apr 63, AQ. Epiphytic bromeliads in forest; 2m above ground; partial shade. *An. (Ker.) neivai*, *Cx. (Mcx.)* spp undetermined, *Wy. (Hys.)* sp C, *Wy. (Hys.)* sp undetermined, *Wy. (Wyo.) pertinans* group, *Wy. (Wyo.) simmsi*.
294. Bocas del Toro, Almirante, Milla 2 (17PLA4428), 10m; 30 Apr 63, AQ. Adults resting in second growth; 1100-1400hrs. *Ae. (Och.) angustivittatus*, *Ae. (Och.) ?dupreei* group, *Ae. (Och.) serratus* group, *Cq. (Rhy.) arribalzagai*, *Li. asulleptus*, *Ps. (Jan.) albipes*, *Ps. (Jan.) ferox*, *Ps. (Jan.) lutzii*, *Ps. (Jan.) ?varipes*, *Ps. (Jan.)* sp undetermined, *Sa. (Sab.) tarsopus*, *Wy.* sp undetermined.
295. Bocas del Toro, Almirante, "Water pump"; 2 May 63, AQ. Treehole in forest; 2m above ground; water clear; deep shade. *Wy. (Tri.)* sp undetermined.
296. Bocas del Toro, 1-4km W of Almirante, Quebrada Nigua, less than 40m; 2 May 63, AQ. Fallen banana leaves at edge of stream; water muddy; partial shade. *Cx. (Cux.)* sp undetermined, *Li. asulleptus*, *Li. durhamii*.
297. Bocas del Toro, Almirante, Milla 1 (17PLA4527), 5m; 2 May 63, AQ. *Heliconia* flower bracts in second growth; partial shade. *Or. phyllozoa*, *Wy. (Dec.) ?pseudopecten* group, *Wy. (subg. D) chalcocephala*.

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298. Bocas del Toro, Almirante, "Cocoa walk"; 2 May 63, AQ. Fallen cacao pods in fruit farm; water dark; deep shade. *Li. asulleptus*, *Li. durhamii*, *Tr. (Trc.) digitatum*.
299. Bocas del Toro, 1-4km W of Almirante, Quebrada Nigua, less than 40m; 2 May 63, AQ. Tree-hole in second growth; 1.5m above ground; water dark; partial shade. *Ae. (Pro.) thorntoni*.
300. Bocas del Toro, 1-4km W of Almirante, Quebrada Nigua, less than 40m; 2 May 63, AQ. Tree-hole in root in forest; water dark; partial shade. *Hg. (Hag.) lucifer*.
301. Bocas del Toro, Almirante, 15km SW of on "Bocas-Chiriqui trail," 250m; 2 May 63, AQ. Treehole in second growth; 2.5m above ground; water clear; deep shade. *Ae. (How.) septemstriatus*, *Cx. (Cux.)* sp undetermined, *Sa. (Sab.) cyaneus*.
302. Bocas del Toro, Almirante, 15km SW of on "Bocas-Chiriqui trail," 250m; 2 May 63, AQ. Epiphytic bromeliads in second growth; 2.5m above ground; full sun. *Cx. (Mcx.)* sp undetermined, *Wy. (Hys.)* sp undetermined, *Wy. (Wyo.) melanopus*, *Wy. (Wyo.) pertinans* group sp B, *Wy. (Wyo.) pertinans* group sp undetermined, *Wy. (Wyo.) ?simmsi*.
303. Bocas del Toro, Almirante, 15km SW of on "Bocas-Chiriqui trail," 250m; 2 May 63, AQ. Aroid leaf axils (*Xanthosoma violaceum*) in second growth; partial shade. *Tr. (subg. A) ulopus*.
304. Bocas del Toro, Almirante, 15km SW of on "Bocas-Chiriqui trail," 250m; 2 May 63, AQ. Adults resting in second growth; 0700-2400hrs. *Ae. (Och.) angustivittatus*, *Ae. (Och.) fulvus*, *Ae. (Och.) nubilus*, *Ae. (Och.) oligopistus*, *Ae. (Och.) serratus*, *Cq. (Rhy.) arribalzagai*, *Cx. (Cux.) nigripalpus*, *Cx. (Mel.)* sp undetermined, *Or. phyllozoa*, *Ps. (Gra.) cingulata* group, *Ps. (Jan.) albipes*, *Ps. (Jan.) ferox*, *Ps. (Jan.) lutzii*, *Ur. (Ura.) pallidoventer* series, *Wy.* sp undetermined.
305. Bocas del Toro, Almirante, Milla 2 (17PLA4428), 10m; 3-4 May 63, AQ. Light trap in second growth; 2.5m above ground; 1900-0600hrs. *Ae. (Och.) angustivittatus*, *Cq. (Rhy.) fasciolata*, *Cq. (Rhy.) nigricans*, *Cx. (Cux.)* sp undetermined, *Cx. (Mel.) erraticus*, *Cx. (Mel.) opisthopus*, *Cx. (Mel.)* sp undetermined, *Ps. (Gra.) cingulata* group, *Ur. (Ura.) pulcherrima*.
306. Bocas del Toro, near Almirante; 3 May 63, AQ. Epiphytic bromeliads. *Wy. (Wyo.) pertinans* group.
307. Bocas del Toro, near Almirante; 3 May 63, AQ. Swamp along railroad tracks; water muddy; abundant grass; full sun. *Cx. (Cux.) ?mollis*, *Cx. (Mel.)* spp undetermined, *Ur. (Ura.)* sp undetermined.
308. Bocas del Toro, Almirante, 15km SW of on "Bocas-Chiriqui trail," 250m; 3 May 63, AQ. Adults resting; 0700-2400hrs. *Ae. (Och.) angustivittatus*, *Ae. (Och.) fulvus*, *Ae. (Och.) oligopistus*, *Ae. (Och.) serratus*, *Ae. (Och.) serratus* group, *An. (Ano.)* sp undetermined, *Cq. (Rhy.) arribalzagai*, *Cx. (Cux.) nigripalpus*, *Cx. (Mel.)* sp undetermined, *Ps. (Jan.) albipes*, *Ps. (Jan.) ferox*, *Ps. (Jan.) lutzii*, *Ur. (Ura.) pallidoventer* series, *Wy.* sp undetermined.
309. Bocas del Toro, Almirante, Milla 2 (17PLA4428), 10m; 3 May 63, AQ. Trap (Shannon with lantern) in second growth; 2m above ground; 1830-2100hrs. *Ae. (Och.) angustivittatus*, *An. (Ano.) apicimacula*, *Cq. (Rhy.) fasciolata*, *Cx. (Rhy.) nigricans*, *Ps. (Gra.) cingulata* group, *Ps. (Jan.) albipes*.
310. Bocas del Toro, Almirante, "1½ mile swamp"; 4 May 63, AQ. Adults resting along edge of swamp; 0700-1130hrs. *Ae. (Och.) dupreei* group, *Cq. (Rhy.) fasciolata*, *Ps. (Gra.) cingulata* group, *Ps. (Jan.) albipes*, *Ps. (Jan.) ferox*, *Ps. (Jan.) lutzii*, *Tr. (subg. A) ulopus*, *Ur. (Ura.) pallidoventer* series, *Wy. (Prs.) complosa*, *Wy.* sp undetermined.
311. Bocas del Toro, 1-4km W of Almirante, Quebrada Nigua, less than 40m; 4 May 63, AQ. Tree-hole in forest; 2m above ground; water dark; deep shade. *Hg. (Hag.) iridicolor*.
312. Bocas del Toro, 1-4km W of Almirante, Quebrada Nigua, less than 40m; 4 May 63, AQ. Artificial container (can) in forest; water dark; deep shade. *Hg. (Hag.) equinus*, *Hg. (Hag.) iridicolor*, *Li. asulleptus*, *Li. durhamii*.
313. Bocas del Toro, 1-4km W of Almirante, Quebrada Nigua, less than 40m; 4 May 63, AQ. Stream; water clear, with slow current; no aquatic vegetation; full sun. *Ur. (Ura.) ?geometrica*.
314. Bocas del Toro, Almirante, Milla 5 (17PLA4332), 10m; 4 May 63, AQ. Probably a treehole in forest; 1m above ground; water dark; deep shade. *Cx. (Cux.)* sp undetermined.
315. Bocas del Toro, near Almirante; 4 May 63, AQ. Treehole in second growth; 1.5m above ground; water dark; partial shade. *Cx. (Cux.)* sp undetermined, *Or. fascipes*, *Sa. (Sab.) cyaneus*.
316. Bocas del Toro, near Almirante; 4 May 63, AQ. Treehole in second growth; 6m above ground; water dark; partial shade. *Hg. (Hag.)* sp undetermined.

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317. Bocas del Toro, Almirante, "Ball ground"; 4 May 63, AQ. Treehole in second growth; 2m above ground; water dark. *Hg. (Hag.) iridicolor*, *Wy. (Tri.)* sp undetermined.
318. Bocas del Toro, Almirante, Milla 2 (17PLA4428), 10m; 4-5 May 63, AQ. Light trap in second growth; 2m above ground; 1830-0630hrs. *Cq. (Rhy.) fasciolata*, *Cq. (Rhy.) nigricans*, *Cx. (Mel.) erraticus*.
319. Bocas del Toro, 1-4km W of Almirante, Quebrada Nigua, less than 40m; 5 May 63, AQ. Treehole in second growth; 2m above ground; water muddy; partial shade. *Wy. (Tri.) aporonoma*.
320. Bocas del Toro, near Almirante; 5 May 63, AQ. Fallen leaves in partial forest; water clear; partial shade. *Li. asulleptus*, *Li. durhamii*.
321. Bocas del Toro, Almirante; 5 May 63, AQ. Adults resting in partial forest; 0700-2400hrs. *Ae. (Och.) angustivittatus*, *Ae. (Och.) nubilus*, *Ae. (Och.) oligopistus*, *Ae. (Och.) serratus*, *Cq. (Rhy.) arribalzagai*, *Cq. (Rhy.) fasciolata*, *Cx. (Cux.)* sp undetermined, *Cx. (Mel.) epanastasis*, *Cx. (Mel.) spissipes*, *Cx. (Mel.) taeniopus* group, *Cx. (Mel.)* sp undetermined, *Li. asulleptus*, *Ma. (Man.)* sp undetermined, *Ps. (Gra.) cingulata* group, *Ps. (Jan.) ?albipes*, *Ps. (Jan.) ferox*, *Ps. (Jan.) ?lutzii*, *Ur. (Ura.) pallidiventer* series, *Wy.* sp undetermined.
322. Bocas del Toro, Almirante, Milla 2 (17PLA4428), 10m; 5-6 May 63, AQ. Light trap in second growth; 2m above ground; 1830-0600hrs. *An. (Ano.) apicimacula*, *Cq. (Rhy.) fasciolata*, *Cq. (Rhy.) nigricans*, *Cx. (Mel.)* sp 39, *Cx. (Mel.)* sect. *Mel.*, *Ma. (Man.)* sp undetermined, *Ps. (Gra.) cingulata* group, *Ur. (Ura.) geometrica*, *Ur. (Ura.) pallidiventer* series, *Wy.* sp undetermined.
323. Bocas del Toro, Almirante, Milla 2 (17PLA4428), 10m; 6 May 63, AQ. Adults resting in partial forest; 0700-1100hrs. Apparently no specimens.
324. Bocas del Toro, Almirante, 15km SW of on "Bocas-Chiriqui trail," 250m; 6 May 63, AQ. Treehole in forest; 2.5m above ground; water muddy; partial shade. *Hg. (Hag.) iridicolor*.
325. Bocas del Toro, 1-4km W of Almirante, Quebrada Nigua, less than 40m; 6 May 63, AQ. *Heliconia* flower bracts near stream; partial shade. *Or. phyllozoa*.
326. Bocas del Toro, Almirante, 15km SW of on "Bocas-Chiriqui trail," 250m; 6 May 63, AQ. Artificial container (can) in partial forest; water clear; deep shade. *Cx. (Cux.)* sp undetermined, *Cx. (Mel.)* sp undetermined, *Hg. (Hag.) iridicolor*.
327. Bocas del Toro, Almirante, 15km SW of on "Bocas-Chiriqui trail," 250m; 6 May 63, AQ. Small ground pools in partial forest; water clear; no aquatic vegetation; full sun. *Cx. (Cux.) coronator* group, *Ur. (Ura.) geometrica*.
328. Bocas del Toro, Almirante, 15km SW of on "Bocas-Chiriqui trail," 250m; 6 May 63, AQ. Treehole in partial forest; 2m above ground; water dark; deep shade. *Ae. (Pro.) thorntoni*, *Cx. (Cux.) mollis*, *Sa. (Sbn.) undosus*.
329. Bocas del Toro, Almirante, 15km SW of on "Bocas-Chiriqui trail," 250m; 6 May 63, AQ. Epiphytic bromeliads in second growth; 2.5m above ground; partial shade. *Wy. (Wyo.) melanopus*.
330. Bocas del Toro, Almirante, Milla 2 (17PLA4428), 10m; 6 May 63, AQ. Trap (Shannon with lantern) in second growth; 2m above ground; 1900-2100hrs. *An. (Ano.) apicimacula*, *Cq. (Rhy.) fasciolata*, *Cq. (Rhy.) nigricans*, *Cx. (Mel.)* sp undetermined, *Ma. (Man.)* sp undetermined, *Ps. (Gra.) cingulata* group.
331. Bocas del Toro, Almirante, Milla 2 (17PLA4428), 10m; 7 May 63, AQ. Adults resting near shores of swamp; 0700-0900hrs. *Ae. (Och.) angustivittatus*, *Ae. (Och.) oligopistus*, *Ae. (Och.) serratus* group, *Ae. (Och.)* sp 16, *Ae. (Pro.) terreus* group, *Cq. (Rhy.) nigricans*, *Cx. (Cux.)* sp undetermined, *Cx. (Mel.)* sp undetermined, *Ma. (Man.)* sp undetermined, *Ps. (Gra.) cingulata* group, *Ps. (Jan.) ?albipes*, *Ps. (Jan.) ferox*, *Ps. (Jan.) ?lutzii*, *Ur. (Ura.) pallidiventer* series, *Wy.* sp undetermined.
332. Bocas del Toro, 1-4km W of Almirante, Quebrada Nigua, less than 40m; 7 May 63, AQ. Artificial container (wooden barrel) in second growth; water muddy; full sun. *Cx. (Cux.) coronator* group.
333. Bocas del Toro, 1-4km W of Almirante, Quebrada Nigua, less than 40m; 6 May 63, AQ. Artificial container (can) in second growth; water clear; deep shade. *Cx. (Cux.) coronator* group, *Cx. (Cux.)* sp undetermined, *Cx. (Mel.)* sp undetermined.
334. Bocas del Toro, Almirante, cemetery road (17PLA4427), 5m; 7 May 63, AQ. *Heliconia* flower bracts in second growth; partial shade. *Wy. (Dec.) pseudopecten* group, *Wy. (Dec.) ulocoma* group, *Wy. (subg. D) chalconecephala*.

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335. Bocas del Toro, Almirante, Milla 3 (17PLA4429), 10m; 7 May 63, AQ. Uncut bamboo in second growth; 1.5m above ground; water dark; deep shade. *Cx. (And.) corrigani*, *Cx. (Cux.)* sp undetermined, *Sa. (Sbn.) undosus*.

336. Bocas del Toro, Almirante, Milla 3 (17PLA4429), 10m; 7 May 63, AQ. Swamp in second growth; water dark; abundant grass; full sun. *Cx. (Cux.) coronator* group, *Cx. (Cux.) nigripalpus*, *Cx. (Cux.)* sp undetermined.

337. Bocas del Toro, Almirante, Milla 2 (17PLA4428), 10m; 7-8 May 63, AQ. Light trap in second growth; 2.5m above ground; 1800-0600hrs. *An. (Nys.) albimanus*, *Cq. (Rhy.) fasciolata*, *Cq. (Rhy.) nigricans*, *Cx. (Mel.)* sp undetermined, *Ma. (Man.)* sp undetermined, *Or. phyllozoa*, *Ps. (Gra.) cingulata* group, *Ur. (Ura.) geometrica*, *Ur. (Ura.) ?pulcherrima*, *Ur. (Ura.) ?socialis*, *Ur. (Ura.)* sp undetermined.

338. Bocas del Toro, Almirante, 15km SW of on "Bocas-Chiriqui trail," 250m; 8 May 63, AQ. Adults resting in second growth; 0700-2400hrs. *Ae. (Och.) angustivittatus*, *Ae. (Och.) dupreei* group, *Ae. (Och.) fulvus*, *Ae. (Och.) serratus*, *Ae. (Och.) serratus* group, *Ae. (Och.)* sp 16, *An. (Ano.) apicimacula*, *Cq. (Rhy.) arribalzagai*, *Cx. (Cux.)* sp undetermined, *Cx. (Mel.)* sp 40, *Cx. (Mel.)* sp undetermined, *Ma. (Man.)* sp undetermined, *Ps. (Gra.) cingulata* group, *Ps. (Jan.) albipes*, *Ps. (Jan.) ferox*, *Ps. (Jan.) lutzii*, *Ur. (Ura.) pallidoventer* series, *Wy. (subg. D) chalconephala*.

339. Bocas del Toro, Almirante, Milla 2 (17PLA4428), 10m; 8 May 63, AQ. Adults attracted to man in partial forest; 6m above ground; 0900-1400hrs. *Ae. (Och.) fulvus*, *Ae. (Och.) serratus* group, *Ae. (Och.)* sp 16, *Cq. (Rhy.) fasciolata*, *Ps. (Jan.) albipes*, *Ps. (Jan.) ferox*, *Ps. (Jan.)* sp undetermined, *Sa. (Sab.) cyaneus*, *Wy. sp* undetermined.

340. Bocas del Toro, Almirante, Milla 2 (17PLA 4428), 10m; 8-9 May 63, AQ. Light trap in second growth; 2.5m above ground; 1800-0600hrs. *Cq. (Rhy.) fasciolata*, *Cq. (Rhy.) nigricans*, *Cx. (Cux.)* sp undetermined, *Cx. (Mel.) taeniopus* group, *Cx. (Mel.) vomerifer*, *Cx. (Mel.)* sp 40, *Cx. (Mel.)* sect. *Mel.*, *Cx. (Mel.)* sp undetermined, *Ps. (Gra.) cingulata* group, *Ur. (Ura.) geometrica*, *Ur. (Ura.) lowii*, *Ur. (Ura.) pulcherrima*, *Ur. (Ura.) ?socialis*.

341. Bocas del Toro, Almirante; 9 May 63, AQ. Adults resting in second growth; 0700-1100hrs. *Ae. (Och.) angustivittatus*, *Ae. (Och.) dupreei* group, *Ae. (Och.) fulvus*, *Ae. (Och.) serratus*, *Ae. (Och.) serratus* group, *Ae. (Och.)* sp 16, *Cq. (Rhy.) arribalzagai*, *Cx. (Cux.)* sp undetermined, *Ma. (Man.)* sp undetermined, *Ps. (Gra.) cingulata* group, *Ps. (Jan.) albipes*, *Ps. (Jan.) ferox*, *Ps. (Jan.) ?lutzii*, *Ps. (Pso.) lineata*, *Wy. sp* undetermined.

342. Bocas del Toro, Almirante, Milla 2 (17PLA4428), 10m; 9 May 63, AQ. Adults attracted to man in partial forest; 9m above ground; 0900-1400hrs. *Hg. (Hag.) equinus*, *Hg. (Hag.) lucifer*, *Ps. (Jan.) albipes*, *Ps. (Jan.) ferox*, *Sa. (Sbo.) chloropterus*, *Tr. (subg. A) ulopus*, *Wy. spp* undetermined.

343. Bocas del Toro, Almirante, Milla 2 (17PLA4428), 10m; 11 May 63, AQ. Light trap in second growth; 2.5m above ground. *Cq. (Rhy.) fasciolata*, *Cq. (Rhy.) nigricans*, *Cx. (Mel.) opisthopus*, *Cx. (Mel.)* sp undetermined, *Ma. (Man.)* sp undetermined, *Ps. (Gra.) cingulata* group, *Ur. (Ura.) ?pulcherrima*, *Ur. (Ura.) ?socialis*, *Wy. sp* undetermined.

344. Bocas del Toro, Almirante, "behind a farm"; 11 May 63, AQ. Adults resting in second growth; 0900-1100hrs. *Ae. (Och.) angustivittatus*, *Ae. (Och.) oligopistus*, *Ae. (Och.) serratus*, *Ae. (Och.) serratus* group, *Ae. (Och.)* sp 16, *Cq. (Rhy.) arribalzagai*, *Cq. (Rhy.) nigricans*, *Cx. (Cux.)* sp undetermined, *Cx. (Mel.) spissipes*, *Li. asulleptus*, *Ps. (Gra.) cingulata* group, *Ps. (Jan.) albipes*, *Ps. (Jan.) ferox*, *Ps. (Jan.) lutzii*, *Wy. sp* undetermined.

345. Bocas del Toro, Almirante, Milla 2 (17PLA4428), 10m; 11 May 63, AQ. Adults attracted to man in second growth; 9m above ground; 0900-1400hrs. *Hg. (Hag.)* sp undetermined, *Ps. (Jan.)* sp undetermined, *Wy. sp* undetermined.

346. Darien, Pucro, Cerro Mali, auxiliary ridge at GML camp, 1380m; 22 May 63, AQ. Spring at edge of cloud forest; water clear, with slow current; no aquatic vegetation; deep shade. *Cx. (Mel.) ?garcasi*, *Dx. sp* undetermined.

347. Darien, Pucro, Cerro Mali, auxiliary ridge at GML camp, 1380m; 22 May 63, AQ. Fallen palm spathes in forest near stream; water clear; deep shade. *Cx. (Car.) metempsytus*.

348. Darien, Pucro, Cerro Mali, top of auxiliary ridge W of, 1500m; 22 May 63, AQ. Bromeliads at edge of cloud forest. *Cx. (Mca.) erethyzonfer*, *Wy. (Wyo.) abebela*, *Wy. (Wyo.) pertinans* group.

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349. Darien, Pucro, Cerro Mali, auxiliary ridge W of, 1470m; 22 May 63, AQ. Treehole at edge of cloud forest; 6m above ground; water clear; deep shade. *Ae. (Pro.) daryi*, *Ae. (Pro.) insolitus*.
350. Darien, Pucro, Cerro Mali, auxiliary ridge W of, 1410m; 22 May 63, AQ. Adults at edge of spring at edge of cloud forest; 1400-1500hrs. *Cx. (Cux.) ?nigripalpus*, *Cx. (Mcx.)* sp undetermined, *Ur. (Ura.) ?trapidoi*, *Wy.* sp undetermined.
351. Darien, Pucro, Cerro Mali, auxiliary ridge W of, 1410m; 22 May 63, AQ. Trap (Shannon with lantern) in forest; 1800-2100hrs. *Cx. (Mel.)* sp undetermined, *Ur. (Ura.) ?trapidoi*.
352. Darien, Pucro, Cerro Mali, ridge W of, near helicopter field, 1400m; 23 May 63, AQ. Small ground pool at base of uprooted tree in forest; water muddy; no aquatic vegetation; deep shade. *Cx. (Mel.) ?garcesi*, *Cx. (Mel.)* sp undetermined.
353. Darien, Pucro, Cerro Mali, ridge about 6.5km W of, 1400m; 23 May 63, AQ. Adults attracted to man at edge of cloud forest; 20m above ground; 1000-1400hrs. *Wy.* sp undetermined.
354. Darien, Pucro, Cerro Mali, about 3km W of summit of, 1440m; 23 May 63, AQ. Small ground pool (collared peccary water hole) in cloud forest; water muddy; deep shade. *An. (Ano.) eiseni*, *Cx. (Mel.) ?garcesi*, *Cx. (Mel.)* sp undetermined.
355. Darien, Pucro, Cerro Mali, about 3km W of summit of, 1440m; 23 May 63, AQ. Fallen palm spathes in cloud forest; water muddy; deep shade. *Cx. (Car.) metempsychus*.
356. Darien, Pucro, Cerro Mali, about 3km W of summit of, 1440m; 23 May 63, AQ. Fallen palm spathes in forest; water muddy; deep shade. *Tr. (Trc.) digitatum*, *Tr. (Trc.) lampropus*.
357. Darien, Pucro, Cerro Mali, about 3km W of summit of, 1440m; 23 May 63, AQ. Epiphytic bromeliads in cloud forest; 2m above ground. *An. (Ker.) neivai*, *Cx. (Mca.) erethygonfer*, *Cx. (Mcx.)* sp undetermined, *Cx. (subg. B)* sp 46, *Wy. (Hys.)* sp undetermined, *Wy. (Wyo.) abebela*, *Wy. (Wyo.) pertinans* group, *Wy. (Wyo.)* sp 79.
358. Darien, Pucro, Cerro Mali, about 3km W of summit of, 1440m; 23 May 63, AQ. Terrestrial bromeliads in cloud forest. *An. (Ker.) neivai*.
359. Darien, Pucro, Cerro Mali, about 6.5km W of summit of, 1440m; 24 May 63, AQ. Epiphytic bromeliads at edge of cloud forest. *An. (Ker.) neivai*, *Cx. (Mca.) erethygonfer*, *Cx. (Mcx.) jenningsi* group, *Wy. (Nuz.)* sp 24, *Wy. (Wyo.) abebela*, *Wy. (Wyo.) pertinans* group sp N, *Wy. (Wyo.) pertinans* group sp undetermined.
360. Darien, Pucro, Cerro Mali, about 6.5km W of summit of, 1440m; 24 May 63, AQ. Adults flying in forest. No specimens.
361. Darien, Pucro, Cerro Mali, about 6.5km W of summit of, 1440m; 24 May 63, AQ. Adults attracted to man at edge of cloud forest; 20m above ground; 1100-1500hrs. *Wy.* sp undetermined.
362. Darien, Pucro, Cerro Mali, about 6.5km W of summit of, 1440m; 25 May 63, AQ. Adults attracted to man in forest; 22m above ground; 1100-1300hrs. No specimens.
363. Darien, Pucro, Cerro Mali, summit of, about 6.5km E of GML camp, 1500m; 26 May 63, AQ. Epiphytic bromeliads in cloud forest; 0.5-2m above ground; deep shade. *An. (Ker.) neivai*, *Cx. (Mca.) erethygonfer*, *Cx. (Mcx.)* sp undetermined, *Cx. (subg. B)* sp 46, *Wy. (Wyo.) abebela*.
364. Darien, Pucro, Cerro Mali, summit of, 1500m; 26 May 63, AQ. Fallen palm spathes in cloud forest; deep shade. *Cx. (Car.) bihaicolus*, *Cx. (Car.) metempsychus*.
365. Darien, Pucro, Cerro Mali, S slopes of, 1485m; 27 May 63, AQ. Treehole (large with small opening in fallen log) in cloud forest; 0.5m above ground; water muddy; deep shade. *Cx. (Car.) bihaicolus*, *Wy. (Tri.)* sp 73.
366. Darien, Pucro, Cerro Mali, N slopes of, 1470m; 27 May 63, AQ. Treehole (in fallen log) in cloud forest; 1m above ground; water clear; deep shade. *Cx. (And.)* sp undetermined, *Cx. (Car.) bihaicolus*.
367. Darien, Pucro, Cerro Mali, W slopes of, 1410m; 28 May 63, AQ. Treehole in cloud forest; 3m above ground; water clear; deep shade. *Ae. (Pro.) daryi*.
368. Darien, Pucro, Cerro Mali, W slopes of, 1400m; 28 May 63, AQ. Treehole in small tree in cloud forest; 2m above ground; water clear; deep shade. *Ae. (Pro.) insolitus*.
- 368A. Darien, ?Pucro, ?Cerro Mali, ?1400m; ?28 May 63, AQ. Bromeliad contamination in PA 368. *Wy. (Wyo.) pertinans* group sp S, *Wy. (Wyo.) pertinans* group sp undetermined.

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369. Darien, Pucro, Cerro Mali, about 6.5km W of summit of, GML camp, 1440m; 31 May 63, AQ. Edge of spring in marginal cloud forest; water clear, with slow current; no aquatic vegetation; deep shade. *An. (Ano.) eiseni*, *Cx. (Mel.) ?garcesi*, *Dx.* sp undetermined.

370. Darien, Pucro, Cerro Mali, about 6.5km W of summit of, GML camp, 1440m; 1 Jun 63, AQ. Treehole (crevices in stump of recently cut tree) in marginal cloud forest; 1m above ground; water clear; full sun. *Cx. (Car.) bihaicolus*.

371. Darien, Pucro, Cerro Mali, about 6.5km W of summit of, GML camp, 1440m; 1 Jun 63, AQ. Epiphytic bromeliads in marginal cloud forest; 2.5m above ground; deep shade. *An. (Ker.) neivai*, *Cx. (Mca.) erethyzonfer*, *Cx. (Mcx.)* sp undetermined, *Cx. (subg. B)* sp 46, *Wy. (Nuz.)* sp 24, *Wy. (Wyo.) abebela*.

372. Darien, Pucro, Cerro Mali, about 6.5km W of summit of, GML camp, 1440m; 2 Jun 63, AQ. Treehole (large cavity in fallen log) in marginal cloud forest; 0.5m above ground; water dark; deep shade. *Tx. (Lyn.)* sp C.

373. Darien, Pucro, Cerro Mali, about 6.5km W of summit of, GML camp, 1440m; 3 Jun 63, AQ. Epiphytic bromeliads in marginal cloud forest; 18-21m above ground; deep shade. *An. (Ker.) neivai*, *Cx. (Mca.) erethyzonfer*, *Wy. (Wyo.) abebela*.

374. Darien, Pucro, Cerro Mali, trail between summit and GML camp, 1410m; 5 Jun 63, AQ. Small ground pool (collared peccary water hole) in marginal cloud forest; water muddy; no aquatic vegetation; deep shade. *An. (Ano.) eiseni*, *Cx. (Mel.)* sp near *jubifer*.

375. Darien, Pucro, Rio Pucro, headwaters of, 1200m; 5 Jun 63, AQ. Treehole (in fallen log across stream) in tropical rain forest; 0.5m above ground; water muddy; partial shade. *Cx. (Car.) bihaicolus*, *Cx. (Mel.)* sp undetermined.

376. Darien, Pucro, Cerro Mali, trail between summit and GML camp, 1410m; 5 Jun 63, AQ. Fallen palm spathes in marginal cloud forest; water clear; deep shade. *Cx. (Car.) metempsychus*.

377. Darien, Pucro, Cerro Mali, about 6.5km W of summit of, GML camp, 1440m; 7 Jun 63, AQ. Artificial containers (25 wooden bowls set out as traps) in marginal cloud forest; water clear; deep shade. *An.* sp undetermined, *Cx. (Car.) bihaicolus*, *Cx. (Car.) metempsychus*, *Li. asulleptus*.

378. Darien, Pucro, Cerro Mali, about 6.5km W of summit of, GML camp, 1440m; 8 Jun 63, AQ. Artificial container (enamel pan set out as trap) in clearing in marginal cloud forest. *Li. asulleptus*.

379. Darien, Pucro, Cerro Mali, about 6.5km W of summit of, GML camp, 1440m; 8 Jun 63, AQ. Small ground pool (collared peccary water hole) in marginal cloud forest; water muddy; no aquatic vegetation; deep shade. *Ae. (Och.) incomptus* (holotype), *Cx. (Mel.)* sp near *jubifer*, *Cx. (Mel.)* ?sp 31, *Ps. (Jan.)* sp undetermined.

380. Darien, Pucro, Cerro Mali, about 6.5km W of summit of, 1350m; 8 Jun 63, AQ. Stream pools in marginal cloud forest; water clear, with moderate current; no aquatic vegetation; deep shade. *An. (Ano.) eiseni*.

381. Darien, Pucro, Cerro Mali, about 6.5km W of summit of, 1350m; 8 Jun 63, AQ. Treehole in marginal cloud forest; 3.5m above ground; water clear; deep shade. *Ae. (Pro.) daryi*.

382. Darien, Pucro, Cerro Mali, about 6.5km W of summit of, 1350m; 8 Jun 63, AQ. Fallen palm spathes in marginal cloud forest; water dark; deep shade. *An.* sp undetermined, *Cx. (Car.) metempsychus*.

383. Darien, Pucro, Cerro Mali, about 6.5km W of summit of, 1440m; 8 Jun 63, AQ. Adults taken sweeping in rock crevices along stream in marginal cloud forest. No specimens.

384. Darien, Pucro, Rio Tacarcuna valley, 600m; 14 Jun 63, AQ. Aroid leaf axils (*Dieffenbachia*) in second growth; deep shade. *Co.* sp undetermined, *Tr. (Cte.) magnum*, *Tr. (subg. A) ulopus*, *Wy. (Cal.) melanocephala*.

385. Darien, Pucro, Rio Tacarcuna valley, 600m; 14 Jun 63, AQ. Marantaceae leaf axils in second growth near stream; partial shade. *Tr. (Cte.) magnum*.

386. Darien, Pucro, Rio Tacarcuna valley, 600m; 14 Jun 63, AQ. *Heliconia* flower bracts in partial forest; deep shade. *Or. phyllozoa*, *Wy. (Dec.) ?eloisa*, *Wy. (Dec.) ?pseudopecten* group.

387. Darien, Pucro, Rio Tacarcuna valley, 600m; 14 Jun 63, AQ. Treehole in second growth; 1.5m above ground; water muddy; deep shade. *Cx. (And.) browni*, *Cx. (Cux.)* sp undetermined.

388. Darien, Pucro, Rio Tacarcuna valley, 600m; 14 Jun 63, AQ. Treehole near stream; 1.5m above ground; water muddy; full sun. *Ae. (Och.) fluviatilis*, *Cx. (Cux.)* sp undetermined.



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389. Darien, Pucro, Rio Tacarcuna valley, 600m; 14 Jun 63, AQ. Stream margins; water clear, with slow current; full sun. *An. (Ano.) eiseni*, *Cx. (Mel.) elevator*.
390. Darien, Pucro, Rio Tacarcuna valley, 600m; 14 Jun 63, AQ. Swamp in forest; water muddy; partial shade. *Cx. (Cux.) mollis*, *Cx. (Mel.) ?conspirator*, *Cx. (Mel.)* sp undetermined, *Ps. (Jan.)* sp undetermined.
391. Darien, Pucro, Rio Tacarcuna valley, 600m; 15 Jun 63, AQ. Marantaceae flower bracts in second growth; partial shade. *Tr. (Cte.) magnum*, *Wy. (Dec.) rorotai* group.
392. Darien, Pucro, Rio Tacarcuna valley, 600m; 15 Jun 63, AQ. Aroid leaf axils in second growth; partial shade. *Tr. (Cte.) magnum*, *Tr. (subg. A) ulopus*, *Wy. (Cal.) melanocephala*, *Wy. (Prs.) complosa*.
393. Darien, Pucro, Rio Tacarcuna valley, 600m; 16 Jun 63, AQ. Stream margins; water with slow current; partial shade. *An. (Ano.) eiseni*, *Cx. (Mel.) elevator*, *Cx. (Mel.) ?iolambdis*.
394. Darien, Pucro, Rio Tacarcuna valley, 600m; 16 Jun 63, AQ. Streamside rockholes in partial forest; partial shade. *An. (Ano.) eiseni*, *Cx. (Mel.)* sp near *elevator*, *Cx. (Mel.)* sp undetermined.
395. Darien, Pucro, Rio Tacarcuna valley, 600m; 17 Jun 63, AQ. Treehole near stream; water muddy; full sun. *Cx. (Cux.) mollis*, *Cx. (Mel.)* sp undetermined.
396. Darien, Pucro, Rio Tacarcuna valley, 600m; 17 Jun 63, AQ. Swamp in forest; water muddy; deep shade. *Cx. (Cux.) mollis*, *Cx. (Mel.)* sp 30.
397. Darien, Pucro, Rio Tacarcuna valley, 600m; 17 Jun 63, AQ. Fallen palm spathes in partial forest; water muddy; deep shade. *Tr. (Trc.) digitatum*.
398. Darien, Pucro, Rio Tacarcuna valley, 600m; 17 Jun 63, AQ. *Heliconia* leaf axils in second growth; full sun. *Wy. (Din.) proviolans*, *Wy. (Jnc.) clasoleuca*.
399. Darien, Pucro, "La Laguna," 900m; 18 Jun 63, AQ. Fallen palm fruits in forest; water muddy; deep shade. *Tr. (Trc.) digitatum*.
400. Darien, Pucro, Rio Tacarcuna valley, 600m; 19 Jun 63, AQ. Streamside rockholes; water clear; full sun. *Cx. (Cux.) declarator* group, *Cx. (Mel.)* sp near *elevator*.
401. Darien, Pucro, Rio Tacarcuna valley, 600m; 19 Jun 63, AQ. Small ground pools in forest; water clear; deep shade. *An. (Ano.) eiseni*, *Cx. (Mel.) elevator*.
402. Darien, Pucro, Rio Tacarcuna valley, 600m; 19 Jun 63, AQ. Shannon trap in forest; 2m above ground; 1845-2015hrs. *Cx. (Mel.)* sp 39, *Li. ?asulleptus*, *Wy.* spp undetermined.
403. Darien, Pucro, Rio Tacarcuna valley, 600m; 20 Jun 63, AQ. Adults resting in forest; 0800-1130hrs. *Ae. (Och.) serratus* group, *Cx. (Cux.)* sp undetermined, *Ps. (Gra.) cingulata* group, *Ps. (Jan.) ferox*, *Wy.* spp undetermined.
404. Darien, Pucro, Rio Tacarcuna valley, 600m; 20 Jun 63, AQ. Fallen cacao pods in partial forest; water muddy; partial shade. *Cx. (Car.) bihaicolus*.
405. Darien, Pucro, Rio Tacarcuna valley, 600m; 20 Jun 63, AQ. Leaf axils of wild banana in second growth; partial shade. *Tr. (subg. A) ulopus*.
406. Darien, Pucro, Rio Tacarcuna valley, 600m; 20 Jun 63, AQ. Adults attracted to man in forest; 7.5m above ground; 0900-1300hrs. *Hg. (Con.) clarki*, *Hg. (Hag.) janthinomys*, *Sa. (Sbo.) chloropterus*, *Wy.* sp undetermined.
407. Darien, Pucro, Cerro Mali, 1500m; 20 Jun 63, AQ. Treehole in forest; water dark; partial shade. *Tx. (Lyn.)* sp C.
408. Darien, Pucro, Rio Tacarcuna valley, 600m; 21 Jun 63, AQ. Streamside rockholes; full sun. *Cx. (Mel.)* sp near *elevator*.
409. Darien, Pucro, Rio Tacarcuna valley, 600m; 21 Jun 63, AQ. Streamside rockholes; water clear; partial shade. *Cx. (Cux.) declarator* group, *Cx. (Lut.)* sp undetermined, *Cx. (Mel.)* sp near *elevator*.
410. Darien, Pucro, Rio Tacarcuna valley, 600m; 21 Jun 63, AQ. Treehole in forest; 1.5m above ground; water muddy; deep shade. *Cx. (Cux.) mollis*.
411. Darien, Pucro, Cerro Mali, 1440m; 21 Jun 63, AQ. Small ground pool (collared peccary water hole) in forest; water dark; partial shade. *Cx. (Mel.)* sp near *jubifer*, *Cx. (Mel.)* sp undetermined.
412. Darien, Pucro, Rio Tacarcuna valley, 600m; 22 Jun 63, AQ. Swamp at edge of forest; water clear; full sun. *Cx. (Cux.) ?mollis*, *Cx. (Mel.)* sp 30.
413. Darien, Pucro, Rio Tacarcuna valley, 600m; 22 Jun 63, AQ. Marantaceae leaf axils (*Calathea*) near stream; water clear. *Tr. (Cte.) magnum*.

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414. Darien, Pucro, Rio Tacarcuna valley, 600m; 22 Jun 63, AQ. *Heliconia latispatha* flower bracts in partial forest. *Or. phyllozoa*, *Tr.* (subg. A) *ulopus*, *Wy.* (Dec.) *eloisa*, *Wy.* (Dec.) ?*pseudopecten* group, *Wy.* (Prs.) *jocosa*.

415. Darien, Pucro, Rio Tacarcuna valley, 600m; 23 Jun 63, AQ. Stream margins; water clear, with moderate current; partial shade. *An.* (Ano.) *eiseni*.

416. Darien, Pucro, Rio Tacarcuna valley, 600m; 23 Jun 63, AQ. Adults resting in forest; 0800-1100hrs. *Ae.* (Och.) *fulvus*, *Ae.* (Och.) *serratus* group, *Cx.* (Mel.) sp undetermined, *Ps.* (Jan.) *ferox*, *Tr.* (subg. A) *ulopus*, *Wy.* spp undetermined.

417. Darien, Pucro, Rio Tacarcuna valley, 600m; 23 Jun 63, AQ. Streamside rockholes; water clear; partial shade. *Cx.* (Mel.) sp near *elevator*.

418. Darien, Pucro, Rio Tacarcuna valley, 600m; 23 Jun 63, AQ. Marantaceae flower bracts (*Calathea*) in second growth; deep shade. *Tr.* (Cte.) *magnum*.

419. Darien, Pucro, Rio Tacarcuna valley, 600m; 24 Jun 63, AQ. Adults resting in forest; 0800-1100hrs. *Ae.* (Och.) ?*serratus* group, *Li.* *asulleptus*, *Ps.* (Gra.) *cingulata* group, *Wy.* (Tri.) sp undetermined, *Wy.* spp undetermined.

420. Darien, Pucro, Rio Tacarcuna valley, 600m; 24 Jun 63, AQ. Treehole in second growth; 1m above ground; water dark; full sun. *Cx.* (And.) ?*conservator*, *Cx.* (Cux.) *corniger*, *Cx.* (Cux.) *mollis*, *Cx.* (Lut.) sp undetermined.

421. Darien, Pucro, Rio Tacarcuna valley, 600m; 24 Jun 63, AQ. Artificial container (porcelain bowl) in the open; water clear. *Cx.* (Cux.) *corniger*, *Cx.* (Cux.) *mollis*.

422. Darien, Pucro, Rio Tacarcuna valley, 600m; 24 Jun 63, AQ. Artificial container (wooden bowl) in forest; water clear; deep shade. *Li.* *asulleptus*.

423. Darien, Pucro, Rio Tacarcuna valley, 600m; 25 Jun 63, AQ. Small ground pools near stream; water clear; partial shade. *Cx.* (Mel.) *elevator*, *Cx.* (Mel.) *iolambdis*, *Cx.* (Mel.) sp near *jubifer*.

424. Darien, Pucro, Rio Tacarcuna valley, 600m; 25 Jun 63, AQ. Streamside rockholes; water clear; full sun. *Cx.* (Mel.) sp near *elevator*.

425. Darien, Pucro, Rio Tacarcuna valley, 600m; 25 Jun 63, AQ. Treehole in forest; 1.5m above ground; water muddy; partial shade. *Tr.* (Trc.) *digitatum*.

426. Darien, Pucro, Rio Tacarcuna valley, 600m; 26 Jun 63, AQ. Artificial containers (wooden bowls) in forest; water dark; deep shade. *An.* (Ano.) *eiseni*, *Cx.* (Cux.) *corniger*, *Cx.* (Cux.) *mollis*, *Li.* *asulleptus*.

427. Darien, Pucro, Rio Tacarcuna valley, 600m; 26 Jun 63, AQ. Adults resting in forest; 0800-1100hrs. *Ae.* (Och.) *serratus* group, *Ps.* (Gra.) *cingulata* group, *Ps.* (Jan.) *ferox*, *Tr.* spp undetermined.

428. Darien, Pucro, Rio Tacarcuna valley, 600m; 27 Jun 63, AQ. Treehole in forest; 1m above ground; water muddy; deep shade. *Tr.* (Trc.) *digitatum*.

429. Darien, Pucro, Rio Tacarcuna valley, 600m; 27 Jun 63, AQ. Volcanic rockhole in forest; water muddy; deep shade. *An.* (Ano.) *eiseni*, *Cx.* (Car.) *secundus*, *Cx.* (Cux.) *mollis*, *Cx.* (Mel.) *elevator*, *Cx.* (Mel.) sp undetermined.

430. Darien, Pucro, Rio Tacarcuna valley, 600m; 27 Jun 63, AQ. Epiphytic bromeliads in forest; 2m above ground; partial shade. *An.* (Ker.) *neivai*, *Cx.* (Mcx.) *gaudeator*, *Or.* *phyllozoa*, *Wy.* (Hys.) sp undetermined.

431. Darien, Pucro, Rio Tacarcuna valley, 600m; 28 Jun 63, AQ. Artificial containers (13 wooden bowls set out as traps) in forest; water muddy; deep shade. *Cx.* (Car.) *bihaicolus*, *Cx.* (Car.) *metempsychus*, *Cx.* (Cux.) *mollis*, *Li.* *asulleptus*, *Li.* *durhamii*.

432. Darien, Pucro, Rio Tacarcuna valley, 600m; 30 Jun 63, AQ. Treehole in forest; 1m above ground; water clear; partial shade. *Cx.* (Car.) *bihaicolus*.

433. Darien, Pucro, Rio Tacarcuna valley, 600m; 30 Jun 63, AQ. Epiphytic bromeliads in forest; 2m above ground; partial shade. *Wy.* (Wyo.) *pertinans* group, *Wy.* sp 75.

434. Darien, Pucro, Rio Tacarcuna valley, 600m; 30 Jun 63, AQ. Artificial container (tin can) in second growth; water clear; full sun. *Tr.* (Trc.) *digitatum*.

435. Darien, Pucro, Rio Tacarcuna valley, 600m; 5 Jul 63, AQ. Epiphytic bromeliads in forest near swamp; 2m above ground; deep shade. *An.* (Ker.) *neivai*, *Cx.* (Mcx.) *jenningsi* group, *Or.* *phyllozoa*, *Wy.* (Hys.) sp E, *Wy.* (Hys.) sp undetermined, *Wy.* (Wyo.) *abebela*, *Wy.* (Wyo.) *pertinans* group sp Q.

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436. Darien, Pucro, Rio Tacarcuna valley, 600m; 5 Jul 63, AQ. Hole in cut stump of giant fern in forest; 2.5m above ground; water muddy; partial shade. *Cx. (Car.) bihaicolus*, *Cx. (Cux.) mollis*.
437. Darien, Pucro, Rio Tacarcuna valley, 600m; 5 Jul 63, AQ. Treehole in forest; water dark; deep shade. *Cx. (And.) conservator*.
438. Darien, Pucro, Rio Tacarcuna valley, 600m; 5 Jul 63, AQ. Treehole in forest; 2.5m above ground; water dark; deep shade. *Cx. (And.) corrigani*, *Hg. (Con.) leucotaeniatius*.
439. Darien, Pucro, Rio Tacarcuna valley, 600m; 6 Jul 63, AQ. Adults resting in forest; 0800-1000 hrs. *Ae. (Och.) serratus* group, *Cx. (Car.)* sp undetermined, *Cx. (Cux.)* sp undetermined, *Li. durhamii*, *Ps. (Gra.) cingulata* group, *Ps. (Jan.) ferox*, *Wy.* spp undetermined.
440. Darien, Pucro, Rio Tacarcuna valley, 600m; 7 Jul 63, AQ. Treehole near stream; 2m above ground; water muddy; full sun. *Cx. (Lut.)* sp undetermined, *Tr. (Trc.) digitatum*.
441. Darien, Pucro, Rio Tacarcuna valley, 600m; 7 Jul 63, AQ. Treehole near stream; 1m above ground; water muddy; full sun. *Cx. (Cux.) mollis*.
442. Darien, Pucro, Rio Tacarcuna valley, 600m; 8 Jul 63, AQ. Treehole in forest; 2m above ground; water muddy; deep shade. *Cx. (And.) corrigani*, *Hg. (Con.) leucotaeniatius*.
443. Darien, Pucro, Rio Tacarcuna valley, 600m; 8 Jul 63, AQ. Adults resting; 0800-1000hrs. *Ae. (Och.) serratus* group, *Cx. (Cux.)* sp undetermined, *Ps. (Gra.) cingulata* group, *Ps. (Jan.) ferox*, *Tr. (subg. A) ulopus*, *Wy. (Tri.)* sp undetermined, *Wy. (subg. D) chalcocephala*, *Wy.* sp undetermined.
444. Darien, Pucro, Rio Tacarcuna valley, 600m; 8 Jul 63, AQ. Adults attracted to man; 9m above ground; 1000-1400hrs. *Hg. (Con.) clarki*, *Hg. (Hag.) janthinomys*, *Ps. (Jan.) albipes*, *Sa. (Sab.) tarsopus*, *Sa. (Sbo.) chloropterus*, *Wy.* sp undetermined.
445. Darien, Pucro, Rio Tacarcuna valley, 600m; 8 Jul 63, AQ. Treehole in second growth; 1m above ground; water muddy; partial shade. *Cx. (Cux.) corniger*, *Cx. (Cux.) mollis*.
446. Darien, Pucro, Rio Tacarcuna valley, 600m; 9 Jul 63, AQ. Fallen palm spathes in forest; water muddy; deep shade. *An. (Ano.) eiseni*, *Cx. (Car.) secundus*, *Tr. (Trc.) digitatum*.
447. Darien, Pucro, "La Laguna," 900m; 10 Jul 63, AQ. Artificial container (tin can) in forest; full sun. *Tr. (Trc.) digitatum*.
448. Darien, Pucro, "La Laguna," 900m; 10 Jul 63, AQ. Swampy pond in forest; water clear; deep shade. *Cx. (Mel.) jubifer*.
449. Darien, Pucro, "La Laguna," 1150m; 10 Jul 63, AQ. Fallen palm spathes in forest; water clear; deep shade. *An. (Ano.) eiseni*, *Cx. (Car.) secundus*, *Tr. (subg. A) ulopus*.
450. Darien, Pucro, "La Laguna," 1150m; 10 Jul 63, AQ. Fallen palm fruit in forest; water muddy; full sun. *Cx. (Car.) bihaicolus*, *Li. asulleptus*.
451. Darien, Pucro, "La Laguna," 1150m; 10 Jul 63, AQ. Aroid leaf axils (*Dieffenbachia*) near swamp or lake; partial shade. *An. (Ker.) neivai*, *Cx. (Car.) bihaicolus*, *Tr. (subg. A) ulopus*, *Wy. (subg. D) chalcocephala*, *Wy.* sp 76.
452. Darien, Pucro, "La Laguna," 900m; 10 Jul 63, AQ. Treehole at edge of forest; 1m above ground; water clear; partial shade. *Cx. (Cux.) bonneae*, *Cx. (Cux.) mollis*.
453. Darien, Pucro, "La Laguna," 900m; 10 Jul 63, AQ. Artificial container (tin can) in forest; water muddy; partial shade. *Tr. (Trc.) digitatum*.
454. Darien, Pucro, "La Laguna," 900m; 10 Jul 63, AQ. Small ground pool (peccary water hole) in forest; water dark; deep shade. *Cx. (Mel.)* sp 31.
455. Darien, Pucro, Rio Tacarcuna valley, 600m; 11 Jul 63, AQ. Shannon trap in second growth; 2m above ground; 1900-2100hrs. *Cx. (Cux.)* sp undetermined, *Ps. (Gra.) cingulata* group, *Ur. (Ura.) geometrica*.
456. Darien, Pucro, Rio Tacarcuna valley, 600m; 11 Jul 63, AQ. Adult attracted to man in forest; 6m above ground; 1000-1400hrs. *Sa. (Sbo.) chloropterus*.
457. Darien, Pucro, Rio Tacarcuna valley, 600m; 12 Jul 63, AQ. Adults attracted to man in forest; 8m above ground; 1000-1400hrs. *Hg. (Con.) clarki*, *Hg. (Hag.) janthinomys*, *Sa. (Sab.) tarsopus*, *Sa. (Sbo.) chloropterus*, *Wy.* sp undetermined.
458. Darien, Pucro, Rio Tacarcuna valley, 600m; 13 Jul 63, AQ. Adults attracted to man in forest; 8m above ground. *Sa. (Sbo.) chloropterus*, *Wy.* sp undetermined.

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459. Panama, Chame, Bejuco (17PPV2251), 20m; 3 Aug 63, AQ. Artificial container (old tire) in second growth; water muddy; partial shade. *Ae. (Pro.) podographicus*, *Cx. (Cux.) quinquefasciatus*, *Tx. (Lyn.) moctezuma*.
460. Panama, about 4km N of Chica, Cerro Campana (17PPV0860), 700m; 3 Aug 63, AQ. Stream pool in the open; water clear; with slow current; full sun. *An. (Ano.) eiseni*, *An. (Nys.) argyritarsis*, *Cx. (Mel.) bastagarius*.
461. Panama, about 4km N of Chica, Cerro Campana (17PPV0860), ?700m; 3 Aug 63, AQ. Epiphytic bromeliads (leaves serrate) in second growth; 5m above ground; partial shade. *Or. phyllozoa*, *Tx. (Lyn.)* sp undetermined, *Wy. (Wyo.) pertinans* group.
462. Panama, about 4km N of Chica, Cerro Campana (17PPV0860), ?700m; 3 Aug 63, AQ. Epiphytic bromeliads in second growth; 4.5-5.5m above ground; partial shade. *Ae. (How.) allotecnon*, *Or. phyllozoa*, *Wy. (Wyo.) pertinans* group.
463. Panama, about 7km SW of Chame, El Harino (17PPV1744), 50m; 3 Aug 63, AQ. Artificial container (old tire) in the open; water clear; full sun. *Cx. (Cux.) interrogator*, *Cx. (Cux.) quinquefasciatus*.
464. Panama, about 7km SW of Chame, El Harino (17PPV1744), 50m; 3 Aug 63, AQ. Treehole in second growth; 1.5m above ground; water muddy; partial shade. *Tx. (Lyn.) moctezuma*.
465. Panama, Chame, Bejuco (17PPV2251), 20m; 4 Aug 63, AQ. Artificial containers (old car parts) in second growth; water muddy. *Cx. (Cux.) corniger*, *Cx. (Cux.) coronator* group, *Cx. (Cux.) quinquefasciatus*, *Cx. (Lut.) allostigma*.
466. Panama, Chame, Bejuco (17PPV2251), 20m; 4 Aug 63, AQ. Small ground pools in second growth; water muddy; full sun. *Cx. (Cux.) coronator* group.
467. Panama, Chame, Bejuco (17PPV2251), 20m; 4 Aug 63, AQ. Artificial container (tin can) in second growth; water dark; full sun. *Cx. (Cux.) corniger*, *Cx. (Cux.) declarator* group, *Li. durhamii*.
468. Panama, Bejuco, Pueblo Nuevo (17PPV2151), 20m; 4 Aug 63, AQ. Artificial container (old tire) in second growth; water clear; partial shade. *Cx. (Cux.) corniger*, *Cx. (Cux.) quinquefasciatus*, *Cx. (Cux.)* sp undetermined.
469. Panama, Bejuco, Pueblo Nuevo (17PPV2151), 20m; 4 Aug 63, AQ. Small ground pools in second growth; water clear; full sun. *Ps. (Gra.) cingulata* group.
470. Panama, about 4km N of Chica, Cerro Campana (17PPV0860), 600m; 5 Aug 63, AQ. Small ground pools in second growth; water clear; partial shade. *An. (Nys.) argyritarsis*, *Cx. (Cux.) declarator* group, *Cx. (Cux.) thriambus*, *Cx. (Cux.)* sp undetermined, *Cx. (Mel.) elevator*.
471. Panama, about 4km N of Chica, Cerro Campana (17PPV0860), 850m; 5 Aug 63, AQ. Large ground pools in second growth in the open; water clear; full sun. *Cx. (Mel.) jubifer*, *Ps. (Jan.)* sp undetermined.
472. Panama, about 4km N of Chica, Cerro Campana (17PPV0860), 750m; 5 Aug 63, AQ. Small ground pools in forest; water clear; deep shade. *Cx. (Mel.) ?jubifer*, *Ps. (Jan.)* sp undetermined, *Sy.* sp undetermined.
473. Panama, about 4km N of Chica, Cerro Campana (17PPV0860), 850m; 5 Aug 63, AQ. Epiphytic bromeliads in second growth; 2-3m above ground; partial shade. *Cx. (Mcx.)* sp undetermined, *Or. phyllozoa*, *Wy. (Wyo.) abebela*.
474. Panama, about 4km N of Chica, Cerro Campana (17PPV0860), 850m; 5 Aug 63, AQ. Adults resting in second growth; 0800-1000hrs. *Ps. (Jan.)* spp undetermined.
475. Panama, Bejuco, Pueblo Nuevo (17PPV2151), 20m; 6 Aug 63, AQ. Small ground pools in second growth; water muddy; partial shade. *Cx. (Cux.) coronator* group.
476. Panama, Bejuco, Lirio (17PPV2150), 25m; 6 Aug 63, AQ. Small stream pools in second growth; water muddy, with moderate current; abundant vegetation (*Utricularia*, *Spirogyra*); partial shade. *Cx. (Cux.) coronator* group, *Ps. (Gra.) cingulata* group.
477. Panama, Chame, Nueva Gorgona, "Playa Gorgona" (17PPV2445), near sea level; 6 Aug 63, AQ. Large ground pools in salt marsh; water muddy, brackish; full sun. *Ae. (Och.) taeniorhynchus*.
478. Panama, about 7km SW of Chame, El Harino (17PPV1744), 50m; 7 Aug 63, AQ. Small ground pools in second growth; water clear; a little grass; partial shade. *Cx. (Cux.) coronator* group.

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479. Panama, about 7km SW of Chame, El Harino (17PPV1744), 50m; 7 Aug 63, AQ. Treehole in second growth; 1.5m above ground; water muddy; partial shade. No specimens.
480. Panama, Chame, Nueva Gorgona (17PPV2445), near sea level; 9 Aug 63, AQ. Salt marsh; water brackish; little aquatic vegetation; full sun. *Ae. (Och.) taeniorhynchus*.
481. Panama, Bejuco, El Libano (17PPV2853), near sea level; 9 Aug 63, AQ. Open marsh; water muddy; abundant vegetation (watercress); full sun. *Cx. (Mel.) ?conspirator*.
482. Panama, Bejuco, El Libano, El Corozal (17PPV3052), near sea level; 9 Aug 63, AQ. Swamp in palm grove; water muddy; no aquatic vegetation; deep shade. *Cx. (Cux.) coronator* group, *Cx. (Mel.) ?conspirator*, *Cx. (Mel.)* sp 32.
483. Panama, Bejuco, El Libano, El Corozal (17PPV3052), near sea level; 9 Aug 63, AQ. Small ground pools; water muddy; no aquatic vegetation; partial shade. *Cx. (Cux.) coronator* group, *Cx. (Cux.) ?mollis*, *Cx. (Cux.) ?nigripalpus*, *Cx. (Mel.) conspirator*.
484. Panama, Bejuco, El Libano, El Corozal (17PPV3052), near sea level; 9 Aug 63, AQ. Crabholes in palm swamp; water muddy; no aquatic vegetation; deep shade. *De. pseudes*.
485. Panama, Bejuco, El Libano, El Corozal (17PPV3052), near sea level; 9 Aug 63, AQ. Stream; water muddy, with slow current; abundant grass; full sun. *Cx. (Mel.)* sp 32.
486. Panama, Bejuco, El Libano, El Corozal (17PPV3052), near sea level; 9 Aug 63, AQ. Treehole in mangrove; 1m above ground; water dark; deep shade. *Hg. (Hag.) chalcospilans*, *Tx. (Lyn.)* sp undetermined.
487. Panama, Bejuco, El Libano (17PPV2853), 30m; 9 Aug 63, AQ. Volcanic rockhole under mango tree; partial shade. *Hg. (Hag.) argyromeris*.
488. Panama, Bejuco, El Libano (17PPV2853), 30m; 9 Aug 63, AQ. Artificial container (iron drum) in domestic area; partial shade. *Cx. (Cux.) coronator* group.
489. Panama, Bejuco, El Libano, "Port of Libano" (17PPV2853), near sea level; 9 Aug 63, AQ. Adults in crabholes in mangrove swamp. *De.* sp undetermined.
490. Panama, about 4km N of Chica, Cerro Campana (17PPV0860), 700m; 10 Aug 63, AQ. Swampy area in partial forest; water dark; no aquatic vegetation; deep shade. *Ae. (Och.) dupreei* group, *Cx. (Mel.) elevator*, *Cx. (Mel.) jubifer*, *Cx. (Mel.) pilosus*.
491. Panama, about 4km N of Chica, Cerro Campana (17PPV0860), 700m; 10 Aug 63, AQ. Swampy area; a little grass; full sun. *An. (Nys.) argyritarsis*, *Cx. (Mel.) pilosus*.
492. Panama, about 4km N of Chica, Cerro Campana (17PPV0860), 700m; 10 Aug 63, AQ. Stream in forest; water clear, with moderate current; no aquatic vegetation; deep shade. *Cx. (Mel.) elevator*.
493. Panama, about 4km N of Chica, Cerro Campana (17PPV0860), 600m; 10 Aug 63, AQ. Stream in second growth; with slow current; abundant grass, algae; full sun. *An. (Nys.) argyritarsis*.
494. Panama, about 4km N of Chica, Cerro Campana (17PPV0860), 700m; 10 Aug 63, AQ. Swampy area in partial forest; water clear; a little grass; partial shade. *Cx. (Mel.) pilosus*.
495. Panama, about 4km N of Chica, Cerro Campana (17PPV0860), 900m; 12 Aug 63, AQ. Epiphytic bromeliads in forest; 2-5m above ground; deep shade. *Cx. (Mca.) erethyzonfer*, *Wy. (Wyo.) pertinans* group.
496. Panama, about 4km N of Chica, Cerro Campana (17PPV0860), 900m; 12 Aug 63, AQ. Epiphytic bromeliads in second growth; 5m above ground; partial shade. *Or. phyllozoa*.
497. Panama, about 4km N of Chica, Cerro Campana (17PPV0860), 800m; 12 Aug 63, AQ. Treehole in forest; 1m above ground; water muddy; deep shade. *Ae. (Pro.) insolitus*.
498. Panama, about 7km S of Capira, Rio Camaron (small tributary of Rio Capira Salido) (17PPV 1462), 30m; 12 Aug 63, AQ. Streamside rockholes; water clear; full sun. *Cx. (Cux.) coronator* group.
499. Panama, Bejuco, "Lagarto," near sea level; 12 Aug 63, AQ. Fallen coconut shell in second growth; water muddy; partial shade. *Cx. (Cux.) corniger*, *Cx. (Cux.)* sp undetermined, *Li. durhamii*.
500. Panama, Bejuco, "Lagarto," near sea level; 12 Aug 63, AQ. Treehole in mangrove; 1m above ground; water dark; partial shade. *Hg. (Hag.) lucifer*.
501. Panama, Bejuco, "El Bajo"; 12 Aug 63, AQ. Artificial container (tin can) in second growth; water dark; deep shade. *Cx. (Cux.) quinquefasciatus*, *Tx. (Lyn.)* sp undetermined.

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502. Cocolé, El Valle (17PNV9551), 600m; 13 Aug 63, AQ. Treehole near stream; 1m above ground; water dark; deep shade. *Hg. (Hag.) lucifer*.
503. Panama, about 15km NW of San Carlos on road to El Valle, Copecito (17PPV0641), 200m; 13 Aug 63, AQ. Artificial containers (old tires) in second growth; water muddy; partial shade. *Cx. (Cux.) corniger*, *Cx. (Cux.) coronator* group, *Hg. (Hag.) lucifer*.
504. Cocolé, El Valle, "Pozo de las Mozas," 700m; 13 Aug 63, AQ. Epiphytic bromeliads in second growth; 5m above ground; partial shade. *Ae. (How.) sexlineatus*, *Wy. (Wyo.) pertinans* group.
505. Cocolé, El Valle, "Pozo de las Mozas," 700m; 13 Aug 63, AQ. Streamside rockholes; water clear; deep shade. *Ae. (Och.) fluviatilis*, *An. (Ano.) eiseni*, *Cx. (Mel.)* sp undetermined.
506. Cocolé, El Valle (17PNV9551), 600m; 13 Aug 63, AQ. Epiphytic bromeliads near stream; 3m above ground; partial shade. *Tx. (Lyn.) moctezuma*, *Wy. (Wyo.) pertinans* group.
507. Cocolé, El Valle (17PNV9551), 600m; 13 Aug 63, AQ. Treehole near stream; 1m above ground; water dark; deep shade. *Cx. (And.) restrictor*, *Hg. (Hag.) lucifer*.
508. Cocolé, El Valle (17PNV9551), 600m; 13 Aug 63, AQ. Epiphytic bromeliads in second growth; 4m above ground; partial shade. *Cx. (Mcx.)* sp undetermined, *Wy. (Wyo.) melanopus*, *Wy. (Wyo.) pertinans* group sp P, *Wy. (Wyo.) pertinans* group sp undetermined.
509. Cocolé, El Valle (17PNV9551), 600m; 13 Aug 63, AQ. Swampy area in second growth; water muddy; abundant grass; full sun. *An. (Nys.)* sp undetermined, *Cx. (Cux.) corniger*, *Cx. (Cux.) coronator* group, *Cx. (Cux.) declarator* group, *Cx. (Cux.) thriambus*, *Cx. (Mel.) ?conspirator*.
510. Cocolé, El Valle (17PNV9551), 600m; 13 Aug 63, AQ. Treehole in cut trunk of forest tree; 1m above ground; water muddy; full sun. *Cx. (Cux.) declarator* group.
511. Panama, Chame, near Bejuco; 14 Aug 63, AQ. Treehole in second growth; 3m above ground; water muddy; partial shade. *Cx. (Cux.) corniger*, *Cx. (Cux.) quinquefasciatus*, *Tx. (Lyn.) moctezuma*.
512. Panama, about 3km W of Chica, Buena Vista (17PPV1357), 300m; 14 Aug 63, AQ. Small ground pools in second growth; water clear; little aquatic vegetation; full sun. *Cx. (Cux.) corniger*, *Cx. (Cux.) coronator* group, *Cx. (Cux.) interrogator*, *Cx. (Cux.) nigripalpus*, *Cx. (Cux.) quinquefasciatus*, *Cx. (Cux.)* sp undetermined.
513. Panama, about 3km W of Chica, Buena Vista (17PPV1357), 300m; 14 Aug 63, AQ. Artificial container (iron pot) in second growth; water muddy; deep shade. *Cx. (Cux.) corniger*, *Cx. (Cux.) interrogator*, *Cx. (Cux.) quinquefasciatus*.
514. Panama, about 3km W of Chica, Buena Vista (17PPV1357), 300m; 14 Aug 63, AQ. Artificial container (old tire) in second growth; water muddy; deep shade. *Cx. (Cux.) quinquefasciatus*.
515. Panama, Chame, Nueva Gorgona, "Playa Gorgona" (17PPV2445), near sea level; 15 Aug 63, AQ. Adults resting in second growth. *Ae. (Och.) taeniorhynchus*, *Ps. (Jan.) ferox*.
516. Panama, Chame, Nueva Gorgona, "Playa Gorgona" (17PPV2445), near sea level; 15 Aug 63, AQ. Small ground pools in second growth; water clear; partial shade. *An. (Ano.) punctimacula*, *Cx. (Cux.)* sp undetermined, *Cx. (Mel.) conspirator*, *Cx. (Mel.)* spp undetermined.
517. Panama, about 4km N of Chica, Cerro Campana (17PPV0860), 800m; 16 Aug 63, AQ. Swampy area in second growth; water muddy; abundant grass; full sun. *Cx. (Mel.) pilosus*.
518. Panama, about 4km N of Chica, Cerro Campana (17PPV0860), ?700m; 16 Aug 63, AQ. Artificial containers (wooden bowls set out as larval traps) in forest; water clear; deep shade. *Ae. (Pro.) campana* (holotype), *Cx. (Cux.) ?declarator* group, *Li. asulleptus*, *Li. durhamii*.
519. Panama, about 4km N of Chica, Cerro Campana (17PPV0860), 700m; 16 Aug 63, AQ. Small ground pools in forest; water dark; deep shade. *Cx. (Mel.) ?elevator*, *Cx. (Mel.) jubifer*.
520. Panama, about 4km N of Chica, Cerro Campana (17PPV0860), ?700m; 16 Aug 63, AQ. Adults resting in second growth. *Ps. (Gra.) cingulata* group, *Ps. (Jan.)* spp undetermined.
521. Cocolé, El Valle (17PNV9551), 600m; 19 Aug 63, AQ. Epiphytic bromeliads in second growth; 5m above ground; partial shade. *Cx. (Mcx.) imitator* group, *Wy. (Wyo.) pertinans* group sp P, *Wy. (Wyo.) pertinans* group sp undetermined.
522. Cocolé, El Valle (17PNV9551), 600m; 19 Aug 63, AQ. Treehole near stream; 0.3m above ground; water muddy; partial shade. *Hg. (Hag.) lucifer*.
523. Panama, Bejuco, El Libano (17PPV2853), near sea level; 20 Aug 63, AQ. Treehole in mangrove in partial forest; 1-1.5m above ground; water dark; partial shade. *Tx. (Lyn.) moctezuma*.

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524. Panama, Bejuco, El Libano (17PPV2853), near sea level; 20 Aug 63, AQ. Adults resting in mangrove swamp; 0700-1030hrs. *De.* sp undetermined.
525. Panama, Chame, Bejuco (17PPV2251), 20m; 21 Aug 63, AQ. Shannon trap; 2m above ground; 1900-2000hrs. *Cx. (Cux.)* sp undetermined, *Cx. (Mel.)* sect. *Mel.*
526. Panama, Chame, Quebrada Piedra (stream that empties into sea at Nueva Gorgona) (17PPV2146), 20m; 21 Aug 63, AQ. Stream in second growth; water clear, with moderate current; full sun. *An. (Nys.)* sp undetermined, *Cx. (Cux.) coronator* group, *Cx. (Mel.) conspirator*, *Cx. (Mel.)* spp undetermined, *Ps. (Jan.)* sp undetermined, *Ur. (Ura.) ?lowii*.
527. Panama, Chame, Rio Lajas (stream that empties into sea about 3km SW of Nueva Gorgona) (17PPV1943), 30m; 21 Aug 63, AQ. Streamside rockholes; water clear; partial shade. *An. (Nys.) argyritarsis*, *Cx. (Mel.) conspirator*, *Cx. (Mel.)* sp undetermined, *Ur. (Ura.)* sp undetermined.
528. Panama, Bejuco, "Puerto Bejuco," near sea level; 21 Aug 63, AQ. Shannon trap in second growth; 2m above ground; 1900-2000hrs. *Cx. (Cux.)* sp undetermined, *De.* sp undetermined.
529. Panama, San Carlos, Rio Mata Ahogado (stream that empties into sea at San Carlos) (17PPV1436), 15m; 22 Aug 63, AQ. Streamside rockholes; water clear; deep shade. *Cx. (Cux.) corniger*, *Cx. (Cux.) coronator* group.
530. Panama, Chame, Rio Poroporo (stream that empties into sea about 5km SW of Nueva Gorgona) (17PPV1742), 45m; 22 Aug 63, AQ. Streamside rockholes; water clear; partial shade. *Ps. (Gra.) cingulata* group.
531. Panama, San Carlos, Rio Teta (stream that empties into sea about 5km NE of San Carlos) (17PPV1541), 30m; 22 Aug 63, AQ. Streamside rockholes; water clear; deep shade. *Ae. (Och.) fluviatilis*, *An. (Ano.) punctimacula*, *Cx. (Cux.) coronator* group, *Hg. (Hag.) argyromeris*.
532. Panama, Chame, Nueva Gorgona, "Playa Gorgona" (17PPV2445), near sea level; 22 Aug 63, AQ. Shannon trap at edge of saltmarsh; 2m above ground. *Ae. (Och.) angustivittatus*, *Ae. (Och.) taeniorhynchus*, *An. (Nys.)* sp undetermined, *Cx. (Cux.)* sp undetermined, *Cx. (Mel.)* sp undetermined, *De.* sp undetermined, *Ps. (Jan.) ferox*, *Tr. (subg. A) ulopus*.
533. Cocle, El Valle (17PNV9551), 600m; 24 Aug 63, AQ. Epiphytic bromeliads in second growth; 5m above ground. *Ae. (How.) allotecnus*, *Ae. (How.) sexlineatus*, *Cx. (Mcx.) imitator* group, *Cx. (Mcx.)* sp undetermined, *Wy. (Wyo.) pertinans* group.
534. Panama, Chame, Bejuco (17PPV2251), 20m; 25 Aug 63, AQ. Treehole in second growth; 2.5 m above ground; water muddy; deep shade. *Ae. (Pro.) podographicus*, *Cx. (Cux.) corniger*, *Tx. (Lyn.)* sp undetermined.
535. Panama, Bejuco, El Libano (17PPV2853), near sea level; 27 Aug 63, AQ. Adults resting in mangrove swamp. *Cx. (Cux.) inflictus* group, *Cx. (Mel.)* sp undetermined, *Cx. (Tin.) latisquama*, *De.* sp undetermined, *Hg. (Hag.) chalcospilans*, *Wy.* sp undetermined.
536. Panama, Bejuco, El Libano (17PPV2853), near sea level; 27 Aug 63, AQ. Shannon trap at edge of mangrove swamp; 2m above ground; 1630-2030hrs. *Ae. (Och.) taeniorhynchus*, *Cq. (Rhy.) arribalgai*, *Cq. (Rhy.) fasciolata*, *Cx. (Mel.) ?sp 32*, *Cx. (Mel.)* sp undetermined, *De.* sp undetermined.
537. Panama, about 4km N of Chica, Cerro Campana (17PPV0860), 700m; 28 Aug 63, AQ. Adults resting in forest; 1000-1400hrs. *Ae. (How.) quadrivittatus*, *Ae. (Pro.) terreus* group, *An. (Ano.) eiseni*, *Cq. (Rhy.) fasciolata*, *Hg. (Hag.) equinus*, *Hg. (Hag.) lucifer*, *Li. asulleptus*, *Wy.* spp undetermined.
538. Panama, about 4km N of Chica, Cerro Campana (17PPV0860), 700m; 28 Aug 63, AQ. Adults attracted to man in forest; 18m above ground; 1000-1400hrs. *Hg. (Hag.) equinus*, *Sa. (Sab.) tarsopus*, *Sa. (Sbo.) chloropterus*, *Wy.* spp undetermined.
539. Panama, about 4km N of Chica, Cerro Campana (17PPV0860), 700m; 29 Aug 63, AQ. Adults resting in forest; 1000-1400hrs. *Hg. (Hag.) equinus*, *Hg. (Hag.) lucifer*, *Tr. (subg. A) ulopus*, *Wy.* spp undetermined.
540. Panama, about 4km N of Chica, Cerro Campana (17PPV0860), 700m; 29 Aug 63, AQ. Adults attracted to man in forest; 18m above ground; 1000-1400hrs. *Hg. (Hag.) equinus*, *Hg. (Hag.) lucifer*, *Sa. (Sab.) tarsopus*, *Wy.* sp undetermined.
541. Panama, Chame, Bejuco (17PPV2251), 20m; 30 Aug 63, AQ. Artificial container (tin can) in second growth; water dark; partial shade. *Cx. (Cux.) quinquefasciatus*.

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542. Panama, Bejuco, Lirio (17PPV2150), 25m; 31 Aug 63, AQ. Small ground pools in second growth; water muddy; abundant vegetation (*Utricularia*, *Spirogyra*, grasses); full sun. *An. (Nys.) strodei*, *Cx. (Mel.) bastagarius*, *Cx. (Mel.) conspirator*, *Cx. (Mel.) dunni*, *Cx. (Mel.) educator*, *Cx. (Mel.) ?egcy-mon*, *Ur. (Ura.)* sp undetermined.
543. Panama, about 4km N of Chica, Cerro Campana (17PPV0860), 600m; 31 Aug 63, AQ. Stream pools in forest; water clear, with moderate current; bottom rocky; deep shade. *An. (Ano.) eiseni*, *Cx. (Cux.)* sp undetermined, *Cx. (Mel.) elevator*, *Ur. (Ura.) ?coatzacoalcos*.
544. Panama, about 4km N of Chica, Cerro Campana (17PPV0860), 800m; 31 Aug 63, AQ. Stream in forest; water clear, with slow current; a little grass; partial shade. *An. (Nys.) argyritarsis*.
545. Panama, about 4km N of Chica, Cerro Campana (17PPV0860), 800m; 31 Aug 63, AQ. Epiphytic bromeliads in forest. *Or. phyllozoa*, *Wy. (Nuz.)* sp 24, *Wy. (Wyo.) pertinans* group.
546. Panama, San Carlos, Rio Teta (stream that empties into sea about 5km NE of San Carlos) (17PPV1541), 30m; 31 Aug 63, AQ. Treehole near stream; 1.5m above ground; water clear; partial shade. *Hg. (Hag.) argyromeris*.
547. Panama, Pedregal, near Tocumen, 5m; 3 Sept 63, AQ. Small ground pools in second growth; water clear; abundant grass; full sun. *An. (Nys.) albimanus*, *Cx. (Cux.) coronator* group, *Cx. (Mel.) bastagarius*, *Cx. (Mel.) chrysonotum*, *Cx. (Mel.) erraticus*, *Cx. (Mel.) pilosus*.
548. Panama, Pedregal, near Tocumen, 5m; 3 Sept 63, AQ. Swamp in second growth; water clear; abundant grass; full sun. *An. (Ano.) ?neomaculipalpus*, *An. (Nys.) ?strodei*, *Cx. (Mel.) pilosus*.
549. Panama, Pedregal, near Tocumen, 5m; 6 Sept 63, AQ. Treehole in second growth; 1m above ground; water muddy; partial shade. *Hg. (Hag.) argyromeris*.
550. Panama, Pedregal, near Tocumen, 5m; 6 Sept 63, AQ. Treehole in second growth; 1m above ground; water muddy. *Cx. (Cux.) corniger*, *Cx. (Cux.) coronator* group.
551. Panama, Pedregal, near Tocumen, 5m; 6 Sept 63, AQ. Swamp; water clear; abundant grass; full sun. *Cx. (Cux.) coronator* group, *Cx. (Cux.) declarator* group, *Cx. (Mel.) bastagarius*, *Cx. (Mel.) chrysonotum*, *Cx. (Mel.) ?conspirator*, *Cx. (Mel.)* sp undetermined, *Ur. (Ura.) ?geometrica*.
552. Panama, Pedregal, near Tocumen, 5m; 6 Sept 63, AQ. Small ground pools in second growth; water muddy; full sun. *Cx. (Mel.) ?iolambdis*, *Cx. (Mel.) pilosus*.
553. Panama, Pedregal, near Tocumen, 5m; 11 Sept 63, AQ. Swamp margins; water dark; deep shade. *Ae. (Och.) angustivittatus*, *Ae. (Och.) serratus*, *Ae. (Och.) serratus* group, *An. (Ano.) punctimacula*, *Cx. (Ads.) amazonensis*, *Cx. (Mel.) ?conspirator*, *Cx. (Mel.) ?pilosus*, *Cx. (Mel.) tecmarsis*, *Cx. (Mel.)* sp 40, *Cx. (Mel.)* sp undetermined, *Ps. (Jan.) ?melanota*, *Ur. (Ura.) leucoptera*.
554. Panama, Pedregal, near Tocumen, 5m; 11 Sept 63, AQ. Treehole near swamp; 0.3m above ground; water muddy. *Cx. (Mel.) epanastasis*.
555. Panama, Juan Diaz, "Cerro Pelao"; 19 Sept 63, AQ. Epiphytic bromeliads in forest; 1m above ground; partial shade. *Cx. (Mx.)* sp undetermined, *Wy. (Hys.)* sp B, *Wy. (Hys.)* sp undetermined, *Wy. (Wyo.) abebela*.
556. Panama, Pedregal, near Tocumen, 5m; 19 Sept 63, AQ. *Heliconia* leaf axils in second growth; partial shade. *Tr. (subg. A) ulopus*, *Wy. (Cal.) melanocephala*.
557. Panama, Pedregal, near Tocumen, 5m; 8 Oct 63, AQ. Stream in swamp; water muddy, with slow current; floating vegetation (*Pistia*). *Ad. (Ady.) squamipennis*, *An. (Nys.) triannulatus*, Corethrellini Genus B ?sp 8, Corethrellini Genus B sp 23, *Cx. (Mel.) bastagarius*, *Cx. (Mel.) ?elevator*, *Cx. (Mel.) panocossa*, *Cx. (Mel.)* sp undetermined, *Ma. (Man.) dyari*, *Ur. (Ura.) apicalis*.
558. Panama, Pedregal, near Tocumen, 5m; 9 Oct 63, AQ. Swamp in second growth; water muddy; abundant floating vegetation (*Lemna*). *Cx. (Ads.) accelerans*, *Cx. (Mel.) dunni*, *Cx. (Mel.) panocossa*.
559. Panama, Pedregal, near Tocumen, 5m; 17 Oct 63, AQ. Swamp margins; water muddy; abundant grass and *Pistia*; full sun. *Ad. (Ady.) squamipennis*, *An. (Nys.) triannulatus*, Corethrellini Genus B ?sp 8, *Cx. (Mel.) panocossa*, *Ma. (Man.) dyari*, *Ur. (Ura.) apicalis*.
560. Panama, Pedregal, near Tocumen, 5m; 22 Oct 63, AQ. Small ground pools (holes in ground) in second growth; water muddy; abundant grass; full sun. *An. (Ano.) neomaculipalpus*, *Cx. (Cux.) coronator* group, *Cx. (Cux.) ?nigripalpus*, *Cx. (Mel.) bastagarius*, *Cx. (Mel.) chrysonotum*, *Cx. (Mel.) ?dunni*.



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561. Panama, Pedregal, near Tocumen, 5m; 22 Oct 63, AQ. Swamp margins; water muddy; abundant watercress; full sun. *An. (Ano.) neomaculipalpus*, *Cx. (Cux.) coronator* group, *Cx. (Mel.) bastagarius*, *Cx. (Mel.) ?conspirator*, *Cx. (Mel.) ?dunni*, *Cx. (Mel.) ?elevator*, *Cx. (Mel.) ?pilosus*, *Ps. (Gra.) cingulata* group, *Ur. (Ura.)* sp undetermined.
562. Panama, Pedregal, near Tocumen, 5m; 22 Oct 63, AQ. Swamp in second growth; water muddy; abundant grass; full sun. *An. (Ano.) neomaculipalpus*, *Cx. (Mel.) bastagarius*, *Cx. (Mel.) chrysonotum*, *Cx. (Mel.) educator*, *Cx. (Mel.) pilosus*, *Cx. (Mel.)* spp undetermined.
563. Panama, Pedregal, near Tocumen, 5m; 28 Oct 63, AQ. Terrestrial bromeliads in second growth; full sun. *Wy. (Wyo.) celaecephala*, *Wy. (Wyo.) pertinans* group.
564. Panama, about 5km S of Capira, Campana, Cerro Campana (17PPV1163), 150m; 27 Oct 63, AQ. Stream pools in second growth; water muddy, with slow current; full sun. *Cx. (Cux.) coronator* group, *Cx. (Mel.) bastagarius*, *Cx. (Mel.) pilosus*.
565. Panama, Bejuco, El Libano (17PPV2853), near sea level; 26 Nov 63, AQ. Crabholes in mangroves; water brackish; deep shade. *De. pseudes*.
566. Panama, Bejuco, El Libano (17PPV2853), near sea level; 26 Nov 63, AQ. Crabholes in second growth; water muddy. *Cx. (Tin.) latisquama*, *De. pseudes*.
567. Panama, Bejuco, El Libano (17PPV2853), near sea level; 26 Nov 63, AQ. Treeholes in mangrove trees in second growth; 1-2m above ground; water dark. *Cx. (And.) conservator*, *Hg. (Hag.) chalcospilans*, *Tx. (Lyn.) moctezuma*.
568. Panama, Bejuco, El Libano (17PPV2853), near sea level; 26 Nov 63, AQ. Adults resting. *Cx. (Cux.) nigripalpus*, *Cx. (Mel.) opisthopus*, *Cx. (Mel.) taeniopus* group, *Cx. (Tin.) latisquama*, *De.* sp undetermined.
569. Panama, Pedregal, Juan Diaz, near sea level; 29 Nov 63, AQ. Crabholes. *De. pseudes*.
570. Panama, Panama City, Panama Viejo (17PPV6696), near sea level; 29 Nov 63, AQ. Treehole in mangroves; 1m above ground; water dark; deep shade. *Hg. (Hag.) chalcospilans*.
571. Panama, Pedregal, Juan Diaz, near sea level; 29 Nov 63, AQ. Adults attracted to man; 0900-1300hrs. *De.* sp undetermined.
572. Panama, Pedregal, Juan Diaz, near sea level; 29 Nov 63, AQ. Adults attracted to man; 0900-1300hrs. *Cx. (Mel.)* sp undetermined.
573. Colon, Palmas Bellas, Pina (17PPA0425), near sea level; 30 Nov 63, AQ. Crabholes in second growth; partial shade. *An. (Ano.) eiseni*, *Cx. (Cux.) inflictus* group, *Cx. (Tin.) latisquama*, *De. panamensis*.
574. Colon, Palmas Bellas, Pina (17PPA0425), near sea level; 30 Nov 63, AQ. Adults in crabholes; 0900-2400hrs. *Cx. (Cux.)* sp undetermined, *Cx. (Mel.)* sp undetermined, *Cx. (Tin.) latisquama*, *De.* sp undetermined, *Hg. (Hag.)* sp undetermined.
575. Colon, Palmas Bellas, Pina (17PPA0425), near sea level; 30 Nov 63, AQ. Marantaceae leaf axils in second growth; partial shade. *Tr. (subg. A) ulopus*.
576. Colon, Palmas Bellas, Pina (17PPA0425), near sea level; 30 Nov 63, AQ. Aroid leaf axils (*Diefenbachia*) in second growth; partial shade. *Tr. (subg. A) ulopus*.
577. Colon, Palmas Bellas, Pina (17PPA0425), near sea level; 30 Nov 63, AQ. Small stream pools in second growth; water clear, with moderate current; partial shade. *Cx. (Mel.) ?elevator*, *Cx. (Mel.)* sp undetermined.
578. Colon, Palmas Bellas, Pina (17PPA0425), near sea level; 30 Nov 63, AQ. Treehole in second growth; 1m above ground; water dark; partial shade. *Ae. (Pro.) thorntoni*, *Hg. (Hag.) lucifer*.
579. Colon, Portobelo (17PPA4856), near sea level; 4 Dec 63, AQ. Epiphytic bromeliads in second growth; 3m above ground; partial shade. *An. (Ker.) neivai*, *Cx. (Mcx.) daumastocampa*, *Cx. (Mcx.) imitator* group, *Cx. (Mcx.)* sp undetermined, *Or. phyllozoa*, *Wy. (Hys.)* sp A, *Wy. (Hys.)* sp undetermined, *Wy. (Wyo.) ?melanopus*, *Wy. (Wyo.) pertinans* group, *Wy. (Wyo.) ?simmsi*.
580. Colon, Portobelo (17PPA4856), near sea level; 4 Dec 63, AQ. Treehole in mangrove; 2m above ground; water dark. *Hg. (Hag.) chalcospilans*.
581. Colon, Portobelo, cemetery (17PPA4856), near sea level; 4 Dec 63, AQ. Artificial container (cemetery vault); water clear; deep shade. *Ae. (Och.) fluviatilis*, *Cx. (Cux.) corniger*, *Cx. (Cux.) coronator* group, *Cx. (Cux.)* sp undetermined, *Cx. (Lut.) allostigma*, *Hg. (Hag.) lucifer*.

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582. Colon, Portobelo (17PPA4856), near sea level; 4 Dec 63, AQ. Artificial container (old canoe) in second growth; water clear; partial shade. *Cx. (Cux.) coronator* group, *Cx. (Cux.)* sp undetermined, *Cx. (Lut.) allostigma*, *Cx. (Mel.) ?conspirator*.
583. Colon, Portobelo (17PPA4856), near sea level; 4 Dec 63, AQ. Aroid leaf axils (*Xanthosoma*) in second growth; full sun. *Tr. (subg. A) ulopus*.
584. Colon, Portobelo (17PPA4856), near sea level; 4 Dec 63, AQ. Aroid leaf axils (*Xanthosoma violaceum*) in second growth; partial shade. *Tr. (subg. A) ulopus*.
585. Colon, Portobelo (17PPA4856), near sea level; 5 Dec 63, AQ. Crabholes in second growth; water muddy; partial shade. *Cx. (Cux.) inflictus* group, *De. panamensis*.
586. Colon, Portobelo (17PPA4856), near sea level; 5 Dec 63, AQ. Treehole in second growth; 2.5 m above ground; water clear; partial shade. *Ae. (Pro.) thorntoni*.
587. Colon, Portobelo, "Isla Caldera," near sea level; 5 Dec 63, AQ. *Heliconia mariae* leaf axils in second growth. *Tr. (subg. A) ulopus*, *Wy. (Cal.) melanocephala*, *Wy. (Prs.) jocosa*.
588. Colon, Portobelo (17PPA4856), near sea level; 5 Dec 63, AQ. Treehole (in cut palm tree) in forest; 2m above ground; water dark; partial shade. *Or. fascipes*, *Tx. (Lyn.)* sp undetermined.
589. Colon, Portobelo, "Isla Caldera," near sea level; 6 Dec 63, AQ. Crabholes in second growth; water muddy; partial shade. *Cx. (Cux.) inflictus* group.
590. Colon, Portobelo (17PPA4856), near sea level; 5 Dec 63, AQ. Small ground pools in second growth; water clear; full sun. *An.* sp undetermined, *Cx. (Cux.) coronator* group, *Cx. (Mel.) chrysonotum*.
591. Colon, Portobelo, "Rio Caldera," near sea level; 6 Dec 63, AQ. *Heliconia mariae* leaf axils in second growth; partial shade. *Wy. (Jnc.) clasoleuca*.
592. Colon, Portobelo, "Rio Caldera," near sea level; 6 Dec 63, AQ. Treehole in second growth; 1-2m above ground; partial shade. *Ae. (Pro.) thorntoni*, *Hg. (Hag.) chalcospilans*, *Or. fascipes*.
593. Colon, Portobelo (17PPA4856), near sea level; 6 Dec 63, AQ. Aroid leaf axils (*Xanthosoma*) in second growth; partial shade. *Tr. (subg. A) ulopus*, *Wy. (Cal.) melanocephala*, *Wy. (Prs.) complosa*.
594. Colon, Portobelo, Rio Cascajal (17PPA4856), near sea level; 7 Dec 63, AQ. Marantaceae leaf axils (*Calathea*) near river. *Tr. (Cte.) magnum*.
595. Colon, Portobelo, Rio Cascajal (17PPA4856), near sea level; 6 Dec 63, AQ. *Heliconia mariae* leaf axils near swamp. *Wy. (Din.) proviolans*, *Wy. (Jnc.) clasoleuca*, *Wy. (Prs.) complosa*.
596. Colon, Portobelo (17PPA4856), near sea level; 8 Dec 63, AQ. Aroid leaf axils (*Xanthosoma*) in second growth; partial shade. *Tr. (Cte.) magnum*, *Tr. (subg. A) ulopus*, *Wy. (Cal.) melanocephala*, *Wy. (Prs.) complosa*.
597. Colon, Portobelo (17PPA4856), near sea level; 8 Dec 63, AQ. Artificial container (old cup) in second growth; water clear; deep shade. *Cx. (Cux.) corniger*.
598. Colon, Portobelo, cemetery (17PPA4856), near sea level; 9 Dec 63, AQ. Crabholes in second growth; water muddy; deep shade. *Cx. (Cux.) inflictus* group, *Cx. (Tin.) latisquama*, *De. panamensis* (holotype).
599. Colon, Portobelo (17PPA4856), near sea level; 9 Dec 63, AQ. Epiphytic bromeliads in second growth; 3m above ground; full sun. *An. (Ker.) neivai*, *Cx. (Mcx.) daumastocampa*, *Cx. (Mcx.)* spp undetermined, *Or. phyllozoa*, *Tr. (subg. A) ulopus*, *Wy. (Hys.)* sp A, *Wy. (Hys.)* sp undetermined, *Wy. (Wyo.) pertinans* group.
600. Colon, Portobelo (17PPA4856), near sea level; 9 Dec 63, AQ. Treehole in second growth; 15 cm above ground; water muddy; partial shade. *Hg. (Hag.) chalcospilans*, *Hg. (Hag.) lucifer*.
601. Colon, Portobelo (17PPA4856), near sea level; 9 Dec 63, AQ. Artificial container (dish) in second growth; water clear; deep shade. *Cx. (Cux.) corniger*, *Hg. (Hag.) lucifer*, *Li. asulleptus*, *Li. durhamii*.
602. Colon, Portobelo (17PPA4856), near sea level; 9 Dec 63, AQ. Shannon trap; 2m above ground. *Cq. (Rhy.) fasciolata*.
603. Colon, Portobelo (17PPA4856), near sea level; 10 Dec 63, AQ. Shannon trap in second growth; 2m above ground; 1830-2100hrs. *An. (Ano.) punctimacula*, *An. (Nys.) aquasalis*, *Cq. (Rhy.) fasciolata*, *De.* sp undetermined, *Hg. (Hag.) chalcospilans*.

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604. Colon, Portobelo (17PPA4856), near sea level; 11 Dec 63, AQ. Shannon trap in second growth; 2m above ground; 1830-2100hrs. *An. (Nys.) albimanus*, *An. (Nys.) aquasalis*, *Cq. (Rhy.) fasciolata*, *Cx. (Cux.)* sp undetermined, *Cx. (Tin.) latisquama*, *De.* sp undetermined, *Hg. (Hag.)* sp undetermined.
605. Colon, Portobelo (17PPA4856), near sea level; 11 Dec 63, AQ. Adults attracted to man near crabholes in second growth; 0900-2400hrs. *De.* sp undetermined.
606. Colon, Portobelo (17PPA4856), near sea level; 11 Dec 63, AQ. Adults attracted to man in mangroves; 0900-2400hrs. *An. (Nys.) aquasalis*, *Cq. (Rhy.) fasciolata*.
607. Colon, Portobelo (17PPA4856), near sea level; 11 Dec 63, AQ. Fallen fruit (calabash shell) in second growth; water clear; partial shade. *Cx. (Cux.) corniger*.
608. Darien, Jaque (17NRU1332), near sea level; 17 Dec 63, AQ. Treehole in second growth; water dark; partial shade. *Hg. (Hag.) boshelli*.
609. Darien, Jaque (17NRU1332), near sea level; 17 Dec 63, AQ. Epiphytic bromeliads in second growth; 8m above ground; partial shade. *Cx. (Mcx.) daumastocampa*, *Cx. (Mcx.)* sp undetermined, *Tx. (Lyn.) superbus*, *Wy. (Hys.)* sp B, *Wy. (Hys.)* sp undetermined, *Wy. (Wyo.) pertinans* group, *Wy. (Wyo.) simmsi*.
610. Darien, Jaque (17NRU1332), near sea level; 18 Dec 63, AQ. Treeholes in forest; 1-4m above ground; water muddy; partial shade. *Ae. (Pro.) terrens* group, *Hg. (Hag.) boshelli*, *Or. fascipes*.
611. Darien, Jaque (17NRU1332), near sea level; 18 Dec 63, AQ. Crabholes in second growth; water muddy. *Cx. (Cux.) inflictus* group, *Cx. (Tin.) latisquama*, *De. pseudes*.
612. Darien, Jaque, Rio Jaque (17NRU1433), near sea level; 19 Dec 63, AQ. Treeholes in mangroves; 2-6m above ground; water dark; partial shade. *Cx. (And.) conservator*, *Hg. (Hag.) boshelli*, *Or. fascipes*.
613. Darien, Jaque, Rio Jaque (17NRU1433), near sea level; 19 Dec 63, AQ. Epiphytic bromeliads on mangroves; 2-5m above ground. *Cx. (Mcx.) daumastocampa*, *Cx. (Mcx.) jenningsi* group, *Cx. (Mcx.)* sp undetermined, *Or. phyllozoa*, *Tx. (Lyn.) ?superbus*, *Wy. (Hys.)* sp undetermined, *Wy. (Wyo.) ?simmsi*.
614. Darien, Jaque, Rio Jaque (17NRU1433), near sea level; 19 Dec 63, AQ. Adults biting man in mangroves; 0800-2400hrs. *Hg. (Hag.)* sp undetermined, *Wy.* sp undetermined.
615. Darien, Jaque, "Fondeadero," near sea level; 20 Dec 63, AQ. Crabholes in second growth; water muddy; partial shade. *Cx. (Mel.) ?iolambdis*, *Cx. (Tin.) latisquama*, *De. pseudes*.
616. Darien, Jaque, "Fondeadero," near sea level; 20 Dec 63, AQ. Fallen coconut shell in second growth; water dark; partial shade. *Tr. (Trc.) digitatum*.
617. Darien, Jaque (17NRU1332), near sea level; 18-20 Dec 63, AQ. Adults biting man in house; 1900-0700hrs. *Cx. (Cux.) quinquefasciatus*.
618. Darien, El Real, "Sumacate," near sea level; 8 Jan 64, AQ. Crabholes along watercourse in forest; water clear; partial shade. *De. pseudes*.
619. Darien, El Real, "Boca Yaviza," near sea level; 9 Jan 64, AQ. Aroid leaf axils (*Montrichardia arborescens*) along watercourse in second growth; full sun. *Tr. (subg. A) ulopus*, *Wy. (Prs.) ypsipola*, *Wy. (subg. D) chalcocephala*.
620. Darien, El Real, "Piriaque," near sea level; 12 Jan 64, AQ. Crabholes along watercourse; water dark; partial shade. *Cx. (Cux.) inflictus* group, *Cx. (Tin.) latisquama*, *De. pseudes*.
621. Darien, El Real, "Piriaque," near sea level; 13 Jan 64, AQ. Crabholes along watercourse; water muddy; partial shade. *Cx. (Tin.) latisquama*, *De. pseudes*.
622. Darien, El Real, "Piriaque," near sea level; 13 Jan 64, AQ. Treeholes in forest; 0.5-2m above ground; water muddy; partial shade. *Cx. (And.) ?corriganii*, *Cx. (Cux.) declarator* group, *Hg. (Hag.) chalcospilans*.
623. Darien, El Real, "Pirre," ?near sea level; 14 Jan 64, AQ. Aroid leaf axils (*Montrichardia arborescens*) along watercourse; partial shade. *Tr. (subg. A) ulopus*, *Wy. (subg. D) chalcocephala*.
624. Darien, El Real, "Pirre," ?near sea level; 15 Jan 64, AQ. Marantaceae leaf axils (*Calathea*) in second growth. *Tr. (Cte.) magnum*.
625. Darien, El Real, "Pirre," ?near sea level; 15 Jan 64, AQ. *Heliconia latispatha* flower bracts in second growth; partial shade. *Tr. (subg. A) ulopus*, *Wy. (Dec.) pseudopecten* group, *Wy. (Dec.) ulocoma* group, *Wy. (Dec.)* sp undetermined.

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626. Darien, El Real, "Pirre," ?near sea level; 16 Jan 64, AQ. *Heliconia mariae* leaf axils in second growth; partial shade. Wy. (Jnc.) *clasoleuca*.
627. Darien, El Real, "Pirre," ?near sea level; 17 Jan 64, AQ. Marantaceae flower bracts (*Calathea insignis*) in second growth; partial shade. Tr. (Cte.) *magnum*, Wy. (Dec.) *rorotai* group, Wy. (Dec.) sp undetermined.
628. Darien, El Real, "Pirre," ?near sea level; 17 Jan 64, AQ. *Heliconia latispatha* flower bracts in second growth; partial shade. Tr. (subg. A) *ulopus*, Wy. (Cal.) *melanocephala*, Wy. (Dec.) *?eloisa*, Wy. (Dec.) *pseudopecten* group, Wy. (Dec.) *?ulocoma* group, Wy. (subg. D) *chalcocephala*.
629. Darien, Pucro, "Camino Tapalisa"; 24 Feb 64, AQ. *Heliconia* flower bracts in second growth; partial shade. Or. *phyllozoa*, Tr. (subg. A) *ulopus*, Wy. (Cal.) *melanocephala*, Wy. (Dec.) *pseudopecten* group, Wy. (Dec.) sp undetermined, Wy. (subg. D) *chalcocephala*.
630. Darien, Pucro, Rio Pucro; 24 Feb 64, AQ. Riverside rockholes; water clear; full sun. An. (Ano.) *eiseni*, An. (Ano.) *pseudopunctipennis*, An. (Ano.) *punctimacula*, An. (Nys.) sp undetermined, Cx. (Cux.) *bonneae*, Cx. (Cux.) *corniger*, Cx. (Cux.) *coronator* group, Cx. (Cux.) *declarator* group, Cx. (Cux.) *mollis*, Cx. (Lut.) *allostigma*, Cx. (Mel.) *?iolambdis*, Cx. (Mel.) sp undetermined, Ur. (Ura.) *lowii*.
631. Darien, Pucro, 100m; 24 Feb 64, AQ. Small ground pools along watercourse; water clear; full sun. An. (Ano.) *pseudopunctipennis*, An. (Ano.) *punctimacula*, An. (Nys.) *albimanus*, An. (Nys.) sp undetermined, Cx. (Mel.) *chrysonotum*, Cx. (Mel.) *educator*, Cx. (Mel.) *erraticus*, Cx. (Mel.) spp undetermined, Ur. (Ura.) *geometrica*.
632. Darien, Pucro, Rio Pucro; 25 Feb 64, AQ. *Heliconia* leaf axils along river; partial shade. Wy. (Cal.) *melanocephala*, Wy. (Din.) *proviolans*, Wy. (Jnc.) *clasoleuca*.
633. Darien, Pucro, "road to Quebrada Pobre"; 28 Feb 64, AQ. Cut or broken bamboo in forest; water dark; partial shade. Tr. (Shn.) n. sp, Wy. (Mia.) sp 15, Wy. (Mia.) sp 17, Wy. (Pen.) *arthrostigma*.
634. Darien, Pucro, "Quebrada Pobre"; 28 Feb 64, AQ. Small ground pools in forest; water clear; partial shade. Ae. (Och.) *serratus* group, An. (Ano.) *punctimacula*, Cx. (Mel.) sp 34, Cx. (Mel.) spp undetermined, Ps. (Jan.) sp undetermined, Ur. (Ura.) sp undetermined.
635. Darien, Pucro, 100m; 28 Feb 64, AQ. Artificial container (old wooden boat) in forest; water clear; partial shade. Ae. (Och.) *serratus* group.
636. Chiriqui, 3km W of El Hato del Volcan, Las Lagunas (17PLV1569), 1340m; 12 Mar 64, AQ. Large ground pools; water clear; abundant grass; full sun. An. (Nys.) *albitarsis*, An. (Nys.) *strodei*, Cx. (Cux.) sp 85, Cx. (Mel.) *?bastagarius*, Cx. (Mel.) *erraticus*, Ur. (Ura.) *pulcherrima*.
637. Chiriqui, El Hato del Volcan (17PLV1970), 1380m; 12 Mar 64, AQ. Small stream pools; water dark, with moderate current; abundant grass; full sun. An. (Nys.) *albitarsis*, An. (Nys.) *strodei*, Cx. (Cux.) *coronator* group, Cx. (Cux.) *thriambus*, Cx. (Cux.) sp 72, Ur. (Ura.) *coatzacoalcos*.
638. Chiriqui, 3km W of El Hato del Volcan, Las Lagunas (17PLV1569), 1340m; 12 Mar 64, AQ. Epiphytic bromeliads in second growth; 2-4m above ground; partial shade. Ae. (How.) *allotecnnon*, Cx. (Mca.) *erethydonfer*, Wy. (Wyo.) *abebela*, Wy. (Wyo.) *pertinans* group sp N, Wy. (Wyo.) *pertinans* group sp undetermined.
639. Chiriqui, 3km W of El Hato del Volcan, Las Lagunas (17PLV1569), 1340m; 12 Mar 64, AQ. Swampy margins of lake; water muddy; abundant grass; full sun. An. (Nys.) *albitarsis*, Cx. (Cux.) *coronator* group, Cx. (Cux.) sp 85, Cx. (Mel.) sp undetermined.
640. Chiriqui, 15km NE of El Hato del Volcan, Cerro Punta (17PLV2778), 1850m; 13 Mar 64, AQ. Small ground pools along stream; water muddy; no aquatic vegetation; full sun. Cx. (Cux.) *thriambus*, Cx. (Cux.) sp 72, Cx. (Cux.) sp 85, Cx. (Cux.) sp 86.
641. Chiriqui, 15km NE of El Hato del Volcan, Cerro Punta (17PLV2778), 1800m; 13 Mar 64, AQ. Small stream pools; water muddy, with slow current; partial shade. Cx. (Cux.) *thriambus*, Cx. (Ncx.) sp 13, Cx. (Cux.) *?dugesi*.
642. Chiriqui, 15km NE of El Hato del Volcan, Cerro Punta (17PLV2778), 1800m; 13 Mar 64, AQ. Swampy area; abundant grass; full sun. Cx. (Cux.) *thriambus*, Cx. (Cux.) sp 72.
643. Chiriqui, 7km NE of El Hato del Volcan, Bambito (17PLV2276), 1600m; 13 Mar 64, AQ. Swampy stream margin; water muddy; abundant watercress; full sun. Cx. (Cux.) *thriambus*, Cx. (Cux.) sp 72.

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644. Chiriqui, immediately NW of El Hato del Volcan, Nueva California (17PLV1871), 1380m; 13 Mar 64, AQ. Artificial container (curbstone well) in domestic area; water clear; partial shade. *Cs. (Cus.) ?dugesi*.
645. Chiriqui, El Hato del Volcan, "Los Pozos" (17PLV1772?), 1350m; 14 Mar 64, AQ. Small ground pools along road; water clear; no aquatic vegetation; partial shade. *An. (Ano.) eiseni*.
646. Chiriqui, 6km NW of El Hato del Volcan, Palo Santo (17PLV1574), 1300m; 16 Mar 64, AQ. Swampy area in second growth; water muddy; abundant grass. *An. (Ano.) ?apicimacula*, *An. (Ano.) eiseni*, *An. (Nys.) strodei*, *Cx. (Cux.) coronator* group, *Cx. (Cux.) thriambus*, *Cx. (Cux.)* sp 72.
647. Chiriqui, 16km NE of El Hato del Volcan, 1km NE of Cerro Punta, Bajo Grande (17PLV2879), 2050m; 18 Mar 64, AQ. Treehole in second growth; 1-2.5m above ground; water dark; partial shade. *An. (Ano.) arboricolus* (holotype), *Cx. (Cux.) pinarocampa*.
648. Chiriqui, 10km NE of El Hato del Volcan, Nueva Suiza (17PLV2478), 1700m; 18 Mar 64, AQ. Small stream pools; water clear, with slow current; full sun. *Cx. (Cux.) thriambus*, *Cx. (Cux.)* sp 72, *Cx. (Cux.)* ?sp 86, *Cs. (Cus.) ?dugesi*.
649. Panama, Chame, Bejuco (17PPV2251), 20m; 28 Mar 64, AQ. Artificial container (curbstone well) near stream; water clear. *Cx. (Cux.) interrogator*, *Cx. (Cux.) quinquefasciatus*, *Cx. (Cux.)* sp undetermined.
650. Cocle, El Valle, "Pozo de las Mozas," 700m; 27 Mar 64, AQ. Limestone rockholes along stream; water clear. *Cx. (Cux.) corniger*, *Cx. (Cux.) coronator* group, *Cx. (Cux.)* sp undetermined.
651. Bocas del Toro, Isla Colon, 2km N of Bocas del Toro, Big Creek (17PLA6335), 10m; 8 Apr 64, AQ. Small stream pools in partial forest; water clear; a little grass; partial shade. *An. (Ano.) eiseni*, *An. (Ano.)* sp undetermined, *Ch. bathana*, *Cx. (Mel.) ?conspirator*, *Cx. (Mel.) elevator*, *Ur. (Ura.) geometrica*.
652. Bocas del Toro, Isla Colon, 2km N of Bocas del Toro, Big Creek (17PLA6335), 10m; 9 Apr 64, AQ. Small ground pools in the open; water clear; no aquatic vegetation; full sun. *An. (Nys.) albimanus*, *Cx. (Cux.)* sp undetermined, *Cx. (Mel.) chrysonotum*.
653. Bocas del Toro, Isla Colon, 2km N of Bocas del Toro, Big Creek (17PLA6335), 10m; 9 Apr 64, AQ. Treehole in second growth; 15cm above ground; water dark; partial shade. *Cx. (Cux.) inflictus* group, *Hg. (Hag.) iridicolor*.
654. Bocas del Toro, Isla Colon, 2km N of Bocas del Toro, Big Creek (17PLA6335), 10m; 10 Apr 64, AQ. Cut or broken bamboo in second growth; 1m above ground; water clear; partial shade. *Cx. (Car.) cerqueirai* (holotype), *Cx. (Car.) secundus*, *Sa. (Sbn.) undosus*, *Wy. (Pen.) arthrostigma*, *Wy. (Tri.) aporonoma*.
655. Bocas del Toro, Isla Colon, 2km N of Bocas del Toro, Big Creek (17PLA6335), 10m; 10 Apr 64, AQ. *Heliconia mariae* leaf axils in forest; partial shade. *Tr. (subg. A) ulopus*, *Wy. (Dec.)* sp undetermined, *Wy. (Din.) proviolans*, *Wy. (Jnc.) clasoleuca*.
656. Bocas del Toro, Isla Colon, 2km N of Bocas del Toro, Big Creek (17PLA6335), 10m; 11 Apr 64, AQ. Epiphytic bromeliads in forest; 3-5m above ground. *An. (Ker.) neivai*, *Cx. (Mcx.) daumastocampa*, *Cx. (Mcx.)* sp undetermined, *Wy. (Hys.)* sp undetermined.
657. Bocas del Toro, Isla Colon, 2km N of Bocas del Toro, Big Creek (17PLA6335), 10m; 11 Apr 64, AQ. *Heliconia latspatha* flower bracts in forest. *Or. phyllozoa*, *Tx. (Lyn.)* sp undetermined, *Tr. (subg. A) ulopus*, *Wy. (Dec.) pseudopecten* group, *Wy. (Dec.)* sp undetermined, *Wy. (subg. D) chalccephala*.
658. Bocas del Toro, 3km E of Bocas del Toro, Isla Bastimentos, Bastimentos (17PLA6733), 10m; 12 Apr 64, AQ. Aroid leaf axils (*Xanthosoma*) in second growth; partial shade. *Cx. (Mcx.)* spp undetermined, *Tx. (Lyn.) superbus*, *Wy. (subg. D) chalccephala*.
659. Bocas del Toro, 3km E of Bocas del Toro, Isla Bastimentos, Bastimentos (17PLA6733), 10m; 12 Apr 64, AQ. Stream in second growth; water clear, with slow current; partial shade. *Cx. (Cux.) coronator* group, *Cx. (Mel.) conspirator*, *Cx. (Mel.) elevator*.
660. Bocas del Toro, 3km E of Bocas del Toro, Isla Bastimentos, Bastimentos (17PLA6733), 10m; 12 Apr 64, AQ. Artificial container (tin can) in domestic area; water clear. *Cx. (Cux.) quinquefasciatus*.

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661. Bocas del Toro, 3km E of Bocas del Toro, Isla Bastimentos, Bastimentos (17PLA6733), 10m; 12 Apr 64, AQ. Artificial container (wooden barrel) in domestic area; water clear; partial shade. *Cx.* (*Cux.*) *coronator* group, *Cx.* (*Cux.*) *quinquefasciatus*.
662. Bocas del Toro, Almirante, Milla 2 (17PLA4428), 10m; 13 Apr 64, AQ. Swampy area; water muddy; abundant algae; full sun. *Cq.* (*Rhy.*) *nigricans*, *Cx.* (*Mel.*) *bastagarius*, *Cx.* (*Mel.*) *dunni*, *Cx.* (*Mel.*) *erraticus*, *Ma.* (*Man.*) *leberi*, *Ma.* (*Man.*) *titillans*, *Ur.* (*Ura.*) *pulcherrima*, *Ur.* (*Ura.*) sp undetermined.
663. Bocas del Toro, Almirante, Milla 2 (17PLA4428), 10m; 13 Apr 64, AQ. Light trap in second growth near swampy area. *Ae.* (*Och.*) *angustivittatus*, *Ae.* (*Och.*) *oligopistus*, *Ae.* (*Och.*) *serratus* group, *Ae.* (*Och.*) sp 16, *Cq.* (*Rhy.*) *arribalzagai*, *Cq.* (*Rhy.*) *fasciolata*, *Cq.* (*Rhy.*) *nigricans*, *Cx.* (*Cux.*) sp undetermined, *Cx.* (*Mel.*) *opisthopus*, *Cx.* (*Mel.*) *vomerifer*, *Cx.* (*Mel.*) sp 39, *Cx.* (*Mel.*) sp 40, *Li.* *asulleptus*, *Ma.* (*Man.*) sp undetermined, *Ur.* (*Ura.*) *hystera*, *Wy.* spp undetermined.
664. Bocas del Toro, Almirante, farm near; 14 Apr 64, AQ. Large stream pools in second growth; water muddy, with strong current; partial shade. *An.* (*Ano.*) *punctimacula*, *An.* (*Nys.*) sp undetermined, *Ch.* *bathana*, *Cx.* (*Mel.*) *conspirator*, *Cx.* (*Mel.*) *educator*, *Cx.* (*Mel.*) *?elevator*, *Cx.* (*Mel.*) *erraticus*.
665. Bocas del Toro, Almirante, farm near; 14 or 15 Apr 64, AQ. *Heliconia latispatha* flower bracts in second growth; partial shade. *Or.* *phyllozoa*, *Tx.* (*Lyn.*) *superbus*, *Tr.* (subg. A) *ulopus*, *Wy.* (*Dec.*) *pseudopecten* group, *Wy.* (*Dec.*) sp undetermined, *Wy.* (subg. D) *chalcocephala*.
666. Bocas del Toro, Almirante, "camp"; 14 or 15 Apr 64, AQ. Light trap in second growth. *Cq.* (*Rhy.*) *fasciolata*, *Cq.* (*Rhy.*) *nigricans*, *Cx.* (*Ads.*) *amazonensis*, *Cx.* (*And.*) *conservator*, *Cx.* (*Cux.*) sp undetermined, *Cx.* (*Mel.*) *chrysonotum*, *Cx.* (*Mel.*) sp 39, *Cx.* (*Mel.*) sp 40, *Cx.* (*Mel.*) sect. *Mel.*, *Cx.* (*Mel.*) sp undetermined, *De.* sp undetermined, *Ps.* (*Jan.*) *ferox*, *Ps.* (*Jan.*) *lutzii*, *Ur.* (*Ura.*) *geometrica*, *Ur.* (*Ura.*) *lowii*, *Wy.* sp undetermined.
667. Bocas del Toro, Almirante, "represa"; 15 Apr 64, AQ. Adults attracted to man in forest. *Ae.* (*How.*) *?septemstriatus*, *Ae.* (*Och.*) *angustivittatus*, *Ae.* (*Och.*) *dupreei* group, *Ae.* (*Och.*) *serratus* group, *Ae.* (*Och.*) sp 16, *Cq.* (*Rhy.*) *arribalzagai*, *Cq.* (*Rhy.*) *fasciolata*, *Cx.* (*Cux.*) sp undetermined, *Cx.* (*Mel.*) sp 40, *Ps.* (*Jan.*) *ferox*, *Tr.* (subg. A) *ulopus*, *Wy.* spp undetermined.
668. Bocas del Toro, Almirante, "represa"; 15 Apr 64, AQ. Streamside rockholes; water clear; full sun. *An.* (*Ano.*) *eiseni*, *Cx.* (*Cux.*) *coronator* group, *Cx.* (*Cux.*) sp undetermined, *Cx.* (*Mel.*) *elevator*, *Cx.* (*Mel.*) sp undetermined.
669. Bocas del Toro, Almirante vicinity; 15 Apr 64, AQ. Large stream pools; water clear, with strong current; full sun. *An.* (*Ano.*) *pseudopunctipennis*, *An.* (*Nys.*) *albimanus*, *An.* (*Nys.*) sp undetermined, *Ch.* *bathana*, *Cx.* (*Mel.*) *educator*, *Cx.* (*Mel.*) sp undetermined, *Ur.* (*Ura.*) sp undetermined.
670. Bocas del Toro, Almirante, "camino represa"; 15 Apr 64, AQ. Small ground pools in second growth; water muddy; full sun. *Ae.* (*Och.*) *angustivittatus*, *Ps.* (*Jan.*) sp undetermined.
671. Bocas del Toro, Almirante, "campamento"; 16 Apr 64, AQ. Light trap in second growth; 2.5 m above ground. *An.* (*Nys.*) sp undetermined, *Cq.* (*Rhy.*) *fasciolata*, *Cq.* (*Rhy.*) *nigricans*, *Cx.* (*Cux.*) *corniger*, *Cx.* (*Cux.*) sp undetermined, *Cx.* (*Mel.*) *chrysonotum*, *Cx.* (*Mel.*) *epanastasis*, *Cx.* (*Mel.*) *erraticus*, *Cx.* (*Mel.*) *opisthopus*, *Cx.* (*Mel.*) *spissipes*, *Cx.* (*Mel.*) sp 39, *Cx.* (*Mel.*) sp 40, *Cx.* (*Mel.*) sp undetermined, *Ma.* (*Man.*) sp undetermined, *Ur.* (*Ura.*) *geometrica*, *Wy.* sp undetermined.
- 672-704. Not used.
705. Canal Zone, Summit, Madden Forest Preserve, Las Cruces Trail, less than 200m; 17 Sept 64, AQ. Small ground pool at base of fallen tree in forest; water muddy; partial shade. *An.* (*Ano.*) *eiseni*, *Cx.* (*Mel.*) *elevator*.
706. Canal Zone, Summit, Madden Forest Preserve, Las Cruces Trail, less than 200m; 17 Sept 64, AQ. Small ground pool in buttressed roots of large *Anacardium excelsum* in forest; deep shade. *An.* (*Ano.*) *eiseni*.
707. Canal Zone, Summit, Madden Forest Preserve, Las Cruces Trail, less than 200m; 17 Sept 64, AQ. Large treehole in forest; 1.5m above ground; deep shade. *Ae.* (*Pro.*) *thorntoni*, *Cx.* (*Car.*) *urichii*, *Cx.* (*Mel.*) *?arboricolus*, *Or.* *fascipes*.
708. Canal Zone, Summit, Madden Forest Preserve, Las Cruces Trail, less than 200m; 17 Sept 64, AQ. Aroid leaf axils (*Dieffenbachia*) in forest; deep shade. *Or.* *phyllozoa*, *Tr.* (subg. A) *ulopus*, *Wy.* (*Prs.*) *complosa*.

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709. Canal Zone, Summit, Madden Forest Preserve, Las Cruces Trail, less than 200m; 17 Sept 64, AQ. Epiphytic bromeliads in forest; 8m above ground; partial shade. *Cx. (Mcx.) gaudeator*, *Cx. (Mcx.) jenningsi* group, *Or. phyllozoa*, *Wy. (Hys.)* sp undetermined, *Wy. (Wyo.) celaenocephala*, *Wy. (Wyo.) pertinans* group sp P, *Wy. (Wyo.) pertinans* group sp undetermined.
710. Colon, near Buena Vista on Natl. Rt. 3, less than 150m; 24 Sept 64, AQ. Cut or broken bamboo along road; water muddy; partial shade. *Cx. (Cux.) corniger*, *Cx. (Cux.) declarator* group, *Hg. (Hag.) argyromeris*, *Hg. (Hag.) lucifer*, *Sa. (Sbn.) undosus*.
711. Canal Zone, Colon, Gatun (17PPA1925), 30m; 24 Sept 64, AQ. Epiphytic bromeliads along road; 1-6m above ground. *Cx. (Mcx.) imitator* group, *Cx. (Mcx.)* sp undetermined, *Or. phyllozoa*, *Tx. (Lyn.) superbus*, *Wy. (Wyo.) celaenocephala*, *Wy. (Wyo.) pertinans* group.
712. Canal Zone, Colon, Gatun (17PPA1925), 30m; 24 Sept 64, AQ. Treehole along road; 5m above ground; water clear; partial shade. *Ae. (Pro.) thurtoni*, *Cx. (Cux.) declarator* group, *Or. fascipes*.
713. Colon, Colon, Corredor de Colon, near sea level; 24 Sept 64, AQ. Cut or broken bamboo in domestic area; water clear; partial shade. *Cx. (And.) ?conservator*, *Tr. (Trc.) digitatum*.
714. Canal Zone, Colon, Margarita (17PPA2231), 10m; 8 Oct 64, AQ. Treehole in second growth; 15cm above ground; water muddy; partial shade. *Hg. (Hag.) lucifer*.
715. Canal Zone, Colon, Margarita (17PPA2231), 10m; 8 Oct 64, AQ. Fallen coconut shells; water dark. *Tr. (Trc.) digitatum*.
716. Canal Zone, Colon, Margarita, "Margarita road," 10m; 8 Oct 64, AQ. Treehole; 1m above ground; water dark; partial shade. *Cx. (And.) conservator*, *Hg. (Hag.) chalcospilans*, *Hg. (Hag.) lucifer*.
717. Canal Zone, Colon, Margarita, "Margarita road," 10m; 8 Oct 64, AQ. Treehole; 1m above ground; water dark; partial shade. No specimens.
718. Canal Zone, Colon, Margarita, "Margarita road," 10m; 8 Oct 64, AQ. *Heliconia mariae* leaf axils in second growth; partial shade. *Wy. (Jnc.) clasoleuca*.
719. Canal Zone, Colon, Margarita, "Margarita road," 10m; 8 Oct 64, AQ. Epiphytic bromeliads in second growth; partial shade. *Cx. (Mcx.)* sp undetermined, *Or. phyllozoa*, *Wy. (Wyo.) celaenocephala*.
720. Canal Zone, about 6km NW of Gatun, Mojinga Swamp (17PPA1329), 5m; 13 Oct 64, AQ. Artificial container (tin can) in forest; water clear; partial shade. *An.* sp undetermined, *Cx. (Cux.)* sp undetermined, *Li. asulleptus*, *Li. durhamii*.
721. Canal Zone, about 6km NW of Gatun, Mojinga Swamp (17PPA1329), 5m; 13 Oct 64, AQ. Treehole in forest; 15cm above ground; water muddy; partial shade. *Ae. (Pro.) galindoi*, *Hg. (Hag.) lucifer*, *Hg. (Hag.)* sp undetermined, *Li. asulleptus*.
722. Canal Zone, about 6km NW of Gatun, Mojinga Swamp (17PPA1329), 5m; 13 Oct 64, AQ. Treehole in forest; 1m above ground; water muddy. *Cx. (And.) ?corrigani*.
723. Canal Zone, about 6km NW of Gatun, Mojinga Swamp (17PPA1329), 5m; 13 Oct 64, AQ. Treehole in forest; 0.5m above ground; water muddy; partial shade. *Hg. (Hag.) argyromeris*.
724. Canal Zone, about 6km NW of Gatun, Mojinga Swamp (17PPA1329), 5m; 13 Oct 64, AQ. Treehole. *Ae. (Pro.) galindoi*, *Cx. (And.) conservator*, *Hg. (Hag.) lucifer*.
725. Canal Zone, about 6km NW of Gatun, Mojinga Swamp (17PPA1329), 5m; 13 Oct 64, AQ. Swamp in forest; water clear; no aquatic vegetation; deep shade. *An. (Ano.) eiseni*, *An. (Ano.) punctimacula*, *Cx. (Cux.) mollis*, *Cx. (Mel.) conspirator*, *Cx. (Mel.) elevator*.
726. Canal Zone, Gatun, Fort Davis, "Aguas Claras Reservoir," 20m; 13 Oct 64, AQ. Stream margins in partial forest; water with moderate current; among overhanging roots, no aquatic vegetation; deep shade. *Ch. bathana*, *Cx. (Mel.) elevator*.
727. Canal Zone, about 6km NW of Gatun, Mojinga Swamp (17PPA1329), 5m; 13 Oct 64, AQ. Treehole in forest; water muddy; deep shade. *An. (Ano.) eiseni*, *Hg. (Hag.) lucifer*, *Wy. (Tri.) aporonoma*.
728. Canal Zone, about 6km NW of Gatun, Mojinga Swamp (17PPA1329), 5m; 13 Oct 64, AQ. Swamp in forest; water clear; no aquatic vegetation; deep shade. *An. (Ano.) eiseni*.
729. Canal Zone, about 6km NW of Gatun, Mojinga Swamp (17PPA1329), 5m; 13 Oct 64, AQ. Adults attracted to man at edge of swamp in forest; 1100hrs. *An. (Nys.) oswaldoi*.
730. Panama, about 7km SW of Chame, El Harino (17PPV1744), 50m; 4 Nov 64, AQ. Limestone rockholes in second growth; water muddy; partial shade. *Cx. (Cux.) coronator* group.

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731. Canal Zone, about 4km S of Fort Sherman, "Sweet Water Reservoir" (17PPA1231), 80m; 10 Nov 64, AQ. Treehole near reservoir; 1m above ground; water muddy. *Hg. (Hag.) chalcospilans*, *Tx. (Lyn.)* sp undetermined.
732. Canal Zone, about 4km S of Fort Sherman, "Sweet Water Reservoir" (17PPA1231), 80m; 10 Nov 64, AQ. Treehole near reservoir; 1.5m above ground; water muddy; partial shade. *Cx. (And.) ?conservator*, *Cx. (And.) ?corrigani*, *Hg. (Hag.) chalcospilans*.
733. Canal Zone, Fort Sherman, Fort San Lorenzo (17PPA0930), 20m; 14 Nov 64, AQ. Artificial container (can) in second growth; water clear. *Tr. (Trc.) digitatum*.
734. Canal Zone, about 4km S of Fort Sherman, "Sweet Water Reservoir" (17PPA1231), 80m; 14 Nov 64, AQ. Treehole near reservoir; 1m above ground; water muddy; partial shade. *Hg. (Hag.) chalcospilans*.
735. Canal Zone, Summit, Madden Forest Preserve, junction of Rt. C25 and Las Cruces Trail (17PA521063), 130m; 31 Oct 65, JB, MM, RS. Aroid leaf axils (*Dieffenbachia*). *Tr. (subg. A) ulopus*.
736. Canal Zone, Summit, Madden Forest Preserve, S of previous collection, less than 200m; 31 Oct 65, JB, MM, RS. Aroid leaf axils in forest. *Tr. (subg. A) ulopus*, *Wy. (Prs.) complosa*.
737. Canal Zone, Panama City, W edge of Albrook Field (17PPV578912), near sea level; 31 Oct 65, JB, MM, RS. Large crabhole in mangroves; water clear. *De. pseudes*.
738. Canal Zone, Panama City, W edge of Albrook Field (17PPV578912), near sea level; 2 Nov 65, AQ, RS. Large treehole in mangrove; water brown; partial shade. *Hg. (Hag.) chalcospilans*.
739. Canal Zone, Panama City, W edge of Albrook Field (17PPV578912), near sea level; 2 Nov 65, AQ, RS. Large (10 X 10cm) treehole in mangrove; 1m above ground; water brown. *Hg. (Hag.) chalcospilans*.
740. Canal Zone, Panama City, W edge of Albrook Field (17PPV578912), near sea level; 2 Nov 65, AQ, RS. Small (5 X 10cm) treehole in mangrove; 1.5m above ground; water brown. *Hg. (Hag.) chalcospilans*.
741. Canal Zone, Panama City, W edge of Albrook Field (17PPV578912), near sea level; 2 Nov 65, AQ, RS. Small treehole in mangrove; water brown. *Hg. (Hag.) chalcospilans*.
742. Canal Zone, Panama City, W edge of Albrook Field (17PPV578912), near sea level; 2 Nov 65, AQ, RS. Small treehole in mangrove; water brown. *Hg. (Hag.) chalcospilans*.
743. Canal Zone, Panama City, W edge of Albrook Field (17PPV578912), near sea level; 2 Nov 65, AQ, RS. Large crabhole (5 X 5cm) in mangroves; water pale brown. *De. pseudes*.
- 743A. Canal Zone, Panama City, W edge of Albrook Field (17PPV578912), near sea level; 2 Nov 65, AQ, RS. Adult resting in crabhole in mangroves. *Cx. (Cux.) quinquefasciatus*.
- 743B. Canal Zone, Panama City, W edge of Albrook Field (17PPV578912), near sea level; 2 Nov 65, AQ, RS. Adults taken sweeping low vegetation in mangroves. *Cx. (Cux.) coronator* group, *Cx. (Cux.) nigripalpus*.
- 743C. Canal Zone, Panama City, W edge of Albrook Field (17PPV578912), near sea level; 2 Nov 65, AQ, RS. Adults biting and landing on man in mangroves. *Ae. (Och.) angustivittatus*, *Ae. (Och.) taeniorhynchus*, *Hg. (Hag.) chalcospilans*.
744. Panama, Panama City, Juan Diaz (17PPA7100), 10m; 4 Nov 65, AQ, RS. Small ground pool in domestic area; water temporary, yellowish green; some algae and grassy vegetation; bottom with mud; full sun. *Cx. (Cux.) coronator* group, *Cx. (Mel.) chrysonotum*, *Ps. (Gra.) cingulata* group.
745. Panama, Panama City, Juan Diaz (17PPA7100), 10m; 4 Nov 65, AQ, RS. Small ground pool in domestic area; water temporary, clear to turbid, stagnant, fresh; some vegetation; bottom with mud. *Cx. (Cux.) coronator* group, *Ps. (Gra.) cingulata* group.
746. Panama, Panama City, Juan Diaz (17PPA7100), 10m; 4 Nov 65, AQ, RS. Artificial container (sheet of cardboard) in domestic area; water temporary, clear, stagnant, fresh. *Cx. (Cux.) coronator* group.
747. Panama, Panama City, Juan Diaz (17PPA7100), 10m; 4 Nov 65, AQ, RS. Artificial container (enamel pot) in domestic area; water temporary, clear, fresh; no vegetation. *Hg. (Hag.) argyromeris*, *Li. durhamii*.



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748. Panama, Panama City, Juan Diaz (17PPA7100), 10m; 4 Nov 65, AQ, RS. Ditch in domestic area; water clear; abundant algae, grassy and herbaceous vegetation. *An. (Ano.) neomaculipalpus*, *Cx. (Mel.) pilosus*, *Ps. (Gra.) cingulata* group.
749. Panama, Panama City, Juan Diaz (17PPA7100), 10m; 4 Nov 65, AQ, RS. Small ground pool in domestic area; water temporary, clear, stagnant, fresh; some algae; bottom with mud. *An. (Nys.) albimanus*, *An. (Nys.)* sp undetermined, *Cx. (Cux.) coronator* group.
750. Panama, Panama City, Juan Diaz (17PPA7100), 10m; 4 Nov 65, AQ, RS. Small ground pool in domestic area; water temporary, clear, stagnant, fresh; abundant grassy vegetation. *An. (Ano.) neomaculipalpus*, *An. (Nys.) strodei*, *Cx. (Cux.) coronator* group, *Cx. (Mel.) ?conspirator*, *Cx. (Mel.) educator*, *Cx. (Mel.) pilosus*, *Ps. (Gra.) cingulata* group, *Ur. (Ura.) lowii*.
751. Panama, Panama City, Juan Diaz (17PPA7100), 10m; 4 Nov 65, AQ, RS. Small ground pool in domestic area; water temporary, clear, stagnant, fresh; some grassy vegetation; bottom with mud. *An.* sp undetermined.
752. Panama, Panama City, Juan Diaz (17PPA7100), 10m; 5 Nov 65, AQ. Small ground pool in domestic area. Specimens included in 750.
753. Panama, Panama City, Juan Diaz (17PPA7100), 10m; 5 Nov 65, AQ. Small ground pool in domestic area. *Cx. (Mel.) educator*.
754. Panama, Panama City, Juan Diaz (17PPA7100), 10m; 5, 6 Nov 65, AQ, RS. Swamp interior; water semipermanent; some herbaceous vegetation; bottom with mud, plant debris. *An. (Ano.) punctimacula*, *Cx. (Cux.)* sp undetermined, *Cx. (Mel.) conspirator*, *Cx. (Mel.) educator*, *Cx. (Mel.) tecmarsis*, *Cx. (Mel.)* spp undetermined.
- 754A. Panama, Panama City, Juan Diaz (17PPA7100), 10m; 5, 6 Nov 65, AQ, RS. Adult taken near swamp. *Ma. (Man.)* sp undetermined.
755. Panama, Panama City, Paitilla (17PPV6392), 10m; 7 Nov 65, AQ. Large ground pool. *An. (Nys.) albimanus*, *Cx. (Cux.) coronator* group, *Cx. (Cux.) nigripalpus*, *Cx. (Mel.) erraticus*, *Ur. (Ura.) lowii*.
756. Panama, Panama City, Paitilla (17PPV6392), 10m; 7 Nov 65, AQ. Small ground pool. *Cx. (Cux.) coronator* group, *Cx. (Cux.) nigripalpus*.
757. Panama, Panama City, Paitilla (17PPV6392), 10m; 7 Nov 65, AQ. Large ground pool. *Cx. (Cux.) ?nigripalpus*, *Cx. (Mel.) chrysonotum*.
758. Panama, Panama City, Paitilla (17PPV6392), 10m; 7 Nov 65, AQ. Small ground pool. *Cx. (Cux.) coronator* group, *Cx. (Cux.) interrogator*, *Cx. (Cux.) nigripalpus*.
759. Panama, Panama City, Paitilla (17PPV6392), 10m; 7 Nov 65, AQ. Artificial container (tire). *Cx. (Cux.) quinquefasciatus*, *Ur. (Ura.) lowii*.
760. Panama, Pacora, about 0.8km S of Natl. Rt. 1 on road to Pacora (17PPA881056), 30m; 8 Nov 65, AQ. Marshy depression in grazing area; water semipermanent, clear, stagnant-slow current, fresh; abundant grassy, herbaceous vegetation; bottom with plant debris; partial shade. *An. (Ano.) neomaculipalpus*, *An. (Nys.) argyritarsis*, *Cx. (Mel.) chrysonotum*, *Cx. (Mel.) ?iolambdis*, *Cx. (Mel.) pilosus*.
761. Panama, Pacora, about 0.8km S of Natl. Rt. 1 on road to Pacora (17PPA881056), 30m; 8 Nov 65, RS. Marshy depression in grazing area; water semipermanent, clear, stagnant-slow current, fresh; abundant grassy, herbaceous vegetation; bottom with plant debris; partial shade. *An. (Nys.) argyritarsis*, *An. (Nys.) strodei*, *Cx. (Mel.) chrysonotum*, *Cx. (Mel.) educator*, *Cx. (Mel.) pilosus*, *Cx. (Mel.)* sp undetermined, *Cx.* sp undetermined, *Ur. (Ura.) lowii*.
762. Canal Zone, Fort Clayton, Miraflores Lake (17PPV5496), 15m; 9 Nov 65, AQ. Treehole. *Hg. (Hag.) argyromeris*, *Hg. (Hag.) chalcospilans*, *Wy. (Tri.) aporonoma*.
763. Canal Zone, Fort Clayton, Miraflores Lake (17PPV5496), 15m; 9 Nov 65, AQ. Streamside rockholes; water clear, fresh; bottom with plant debris. *Hg. (Hag.) chalcospilans*.
- 763A. Canal Zone, about 4km N of Fort Clayton, Rt. C21 just S of Chiva Chiva (17PPV5698), 30 m; 10 Nov 65, AQ, RS. Ditch in grassy area; water semipermanent, clear, stagnant-slow current, fresh; abundant algae, grassy vegetation; bottom with mud. *An. (Nys.) argyritarsis*, *Cx. (Cux.) coronator* group, *Cx. (Cux.) declarator* group, *Cx. (Cux.) nigripalpus*, *Cx. (Mel.) chrysonotum*, *Cx. (Mel.) ?iolambdis*, *Ur. (Ura.) geometrica*.

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- 763B. Canal Zone, about 4km N of Fort Clayton, Rt. C21 just S of Chiva Chiva (17PPV5698), 30 m; 10 Nov 65, AQ, RS. Ditch in grassy area; water semipermanent, clear, stagnant-slow current, fresh; a little algae; bottom with mud; full sun. *Cx. (Cux.) coronator* group, *Cx. (Mel.) chrysonotum*.
764. Canal Zone, about 4km N of Fort Clayton, Chiva Chiva (17PPV5698), 30m; 10 Nov 65, AQ. Treehole (in small tree) in forest; 1m above ground. *Ae. (Pro.) terrens* group, *Cx. (And.) conservator*, *Hg. (Hag.) argyromeris*, *Tx. (Lyn.) moctezuma*.
765. Canal Zone, about 4km N of Fort Clayton, Chiva Chiva (17PPV5698), 30m; 10 Nov 65, AQ. *Heliconia* leaf axils. *Tr. (subg. A) ulopus*.
766. Canal Zone, about 4km N of Fort Clayton, Chiva Chiva (17PPV5698), 30m; 10 Nov 65, AQ. *Heliconia* leaf axils. *Tr. (subg. A) ulopus*, *Wy. (Prs.) jocosa*.
767. Canal Zone, about 1km N of Fort Clayton, junction of Rts. C2 and C21 (17PPV542964), 20 m; 10 Nov 65, AQ, RS. Large treehole along road; 1.3m above ground. *Hg. (Hag.) argyromeris*, *Hg. (Hag.) lucifer*.
768. Canal Zone, about 4km N of Fort Clayton, Chiva Chiva (17PPV5698), 30m; 11 Nov 65, AQ. Treehole; 1m above ground. *Ae. (Pro.) thorntoni*, *Cx. (And.) conservator*, *Hg. (Hag.) argyromeris*, *Hg. (Hag.) lucifer*.
769. Canal Zone, about 4km N of Fort Clayton, Chiva Chiva (17PPV5698), 30m; 11 Nov 65, AQ. Treehole; 0.7m above ground. *Ae. (Pro.) thorntoni*, *Cx. (And.) conservator*.
770. Canal Zone, about 4km N of Fort Clayton, Chiva Chiva (17PPV5698), 30m; 11 Nov 65, AQ. Treehole; 1m above ground. *Ae. (Pro.) thorntoni*, *Hg. (Hag.) argyromeris*.
771. Canal Zone, about 4km N of Fort Clayton, Chiva Chiva (17PPV5698), 30m; 11 Nov 65, AQ. Treehole; 0.5m above ground. *Hg. (Hag.) lucifer*.
772. Canal Zone, about 4km N of Fort Clayton, Chiva Chiva (17PPV5698), 30m; 11 Nov 65, AQ. Treehole; water clear; bottom with plant debris. *Ae. (Pro.) thorntoni*.
773. Canal Zone, about 4km N of Fort Clayton, Chiva Chiva (17PPV5698), 30m; 11 Nov 65, AQ. Treehole; 1.3m above ground. *Ae. (Pro.) thorntoni*, *Ae. (Pro.) zavortinki*, *Hg. (Hag.) argyromeris*.
774. Canal Zone, Fort Clayton, Chiva Chiva, 3.4km N of Rt. C2 on Rt. C21 (17PPV561989), 30m; 12 Nov 65, AQ, RS. Stream in forest; water temporary, clear, fresh, with slow current; some herbaceous vegetation; deep-partial shade. *An. (Ano.) apicimacula*, *Cx. (Cux.) coronator* group, *Cx. (Mel.) conspirator*, *Cx. (Mel.) elevator*, *Lz. sp 3*, *Ur. (Ura.) sp* undetermined.
775. Canal Zone, Fort Clayton, Chiva Chiva, 3.4km N of Rt. C2 on Rt. C21 (17PPV561989), 30m; 12 Nov 65, AQ, RS. Stream in forest; water temporary, clear, fresh, with slow current; some herbaceous vegetation; partial shade. *An. (Ano.) apicimacula*, *An. (Ano.) eiseni*, *Cx. (Cux.) corniger*, *Cx. (Cux.) declarator* group, *Cx. (Cux.) mollis*, *Cx. (Mel.) conspirator*, *Ps. (Jan.) ferox*.
776. Canal Zone, Fort Clayton, Chiva Chiva, 3.4km N of Rt. C2 on Rt. C21 (17PPV561989), 30m; 12 Nov 65, AQ, RS. *Heliconia* leaf axils. *Tr. (subg. A) ulopus*, *Wy. (Prs.) jocosa*, *Wy. (Prs.) ypsipola*.
777. Canal Zone, Fort Clayton, Chiva Chiva, 3.4km N of Rt. C2 on Rt. C21 (17PPV561989), 30m; 12 Nov 65, AQ. Treehole. *Hg. (Hag.) equinus*, *Hg. (Hag.) lucifer*.
778. Canal Zone, Fort Clayton, Chiva Chiva, 3.4km N of Rt. C2 on Rt. C21 (17PPV561989), 30m; 12 Nov 65, AQ. Fallen coconut shell along road. *Cx. (Cux.) declarator* group, *Li. durhamii*.
779. Canal Zone, Fort Clayton, 0.6km N of Rt. C2 on Rt. C21 (17PPV542971), 20m; 21 Nov 65, AQ, RS. Aroid leaf axils (?*Montrichardia*) in forest near lake; full sun. *Wy. (Prs.) jocosa*, *Wy. (Prs.) ypsipola*.
780. Panama, Panama City, Paitilla (17PPV6392), 10m; 12 Nov 65, AQ. Large ground pool; water temporary, clear, fresh; algae present; bottom with mud; deep shade. *An. (Ano.) ?punctimacula*, *An. (Nys.) albimanus*, *Cx. (Cux.) coronator* group, *Cx. (Cux.) nigripalpus*, *Cx. (Mel.) bastagarius*, *Cx. (Mel.) chrysonotum*, *Cx. (Mel.) conspirator*, *Cx. (Mel.) erraticus*, *Cx. (Mel.) pilosus*, *Ur. (Ura.) ?geometrica*, *Ur. (Ura.) lowii*.
781. Panama, Panama City, Paitilla (17PPV6392), 10m; 12 Nov 65, AQ. Artificial container (steel sheet); deep shade. *Cx. (Cux.) nigripalpus*, *Cx. (Cux.) quinquefasciatus*.
782. Panama, ?Alcalde Diaz, "Chiva Chiva Rd., W of Transisthmian Hy."; 12 Nov 65, AQ. Small ground pool; water temporary; abundant herbaceous vegetation. *Cx. (Cux.) coronator* group, *Cx. (Mel.) conspirator*.

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783. Canal Zone, Fort Clayton, Rio Cardenas (stream along E edge of fort), near sea level; 12 Nov 65, AQ. Small ground pool near tree; water temporary; no vegetation; bottom with leaves. *Cx. (Cux.) declarator* group, *Cx. (Cux.) mollis*.
784. Canal Zone, Fort Clayton, Rio Cardenas (stream along E edge of fort), near sea level; 12 Nov 65, AQ. Small ground pool near tree; water temporary; flotage present. No specimens.
785. Canal Zone, Fort Clayton, Rio Cardenas (stream along E edge of fort), near sea level; 12 Nov 65, AQ. Large treehole; 0.3m above ground. *Hg. (Hag.) argyromeris*.
786. Not used.
787. Canal Zone, Summit, Madden Forest Preserve, 3.7km N of Rt. C2 on Rt. C25 (17PPA5103), 70m; 15 Nov 65, AQ, RS. Aroid leaf axils in forest. *Tr. (subg. A) ulopus*, *Wy. (Cal.) melanocephala*, *Wy. (Prs.) complosa*.
788. Canal Zone, Summit, Madden Forest Preserve, 3.7km N of Rt. C2 on Rt. C25 (17PPA5103), 70m; 15 Nov 65, AQ, RS. Small ground pool in forest; water temporary, clear, stagnant, fresh; no vegetation; bottom with mud; partial shade. *An. (Ano.) eiseni*, *Cx. (Cux.) coronator* group, *Cx. (Cux.) declarator* group, *Cx. (Lut.) allostigma*.
789. Canal Zone, Summit, Madden Forest Preserve, 3.7km N of Rt. C2 on Rt. C25 (17PPA5103), 70m; 15 Nov 65, AQ, RS. Ditches (1 with slow current, 1 stagnant) in forest; some grassy vegetation; bottom with mud; partial shade. *An. (Ano.) eiseni*.
790. Canal Zone, Summit, Madden Forest Preserve, 3.7km N of Rt. C2 on Rt. C25 (17PPA5103), 70m; 15 Nov 65, AQ, RS. Treehole (jagged opening in top of trunk) in forest; water amber. *Sa. (Sab.) cyaneus*, *Wy. (Tri.)* sp 8.
791. Canal Zone, Summit, Madden Forest Preserve, junction of Rt. C25 and Las Cruces Trail (17PPA521063), 130m; 16 Nov 65, MM, AQ. Terrestrial bromeliads in forest. *Wy. (Wyo.) pertinans* group sp P, *Wy. (Wyo.) pertinans* group sp Q, *Wy. (Wyo.) pertinans* group sp undetermined.
792. Canal Zone, Summit, Madden Forest Preserve, junction of Rt. C25 and Las Cruces Trail (17PPA521063), 130m; 16 Nov 65, MM, AQ. Treehole in forest; 0.3m above ground. *Hg. (Hag.) lucifer*.
793. Canal Zone, Summit, Madden Forest Preserve, junction of Rt. C25 and Las Cruces Trail (17PPA521063), 130m; 16 Nov 65, MM, AQ. Treehole in forest. *An. (Ano.) eiseni*, *Cx. (Mel.) arboricolus*.
794. Canal Zone, Summit, Madden Forest Preserve, "S of Green Park," less than 200m; 16 Nov 65, MM, AQ. Aroid leaf axils in forest. *Tr. (subg. A) ulopus*, *Wy. (Prs.) complosa*.
795. Canal Zone, across canal from Summit, "Empire Firing Range" (17PPA469009), 70m; 18 Nov 65, AQ, RS. Marantaceae flower bracts (*Calathea*) in forest; deep shade. *Tr. (Cte.) magnum*, *Wy. (Dec.) rorotai* group, *Wy. (Dec.)* sp undetermined.
796. Canal Zone, across canal from Summit, "Empire Firing Range" (17PPA469009), 70m; 18 Nov 65, AQ, RS. Marantaceae leaf axils (*Calathea*) in forest. *Tr. (Cte.) magnum*, *Tr. (subg. A) ulopus*.
797. Canal Zone, across canal from Summit, "Empire Firing Range" (17PPA469009), 70m; 18 Nov 65, AQ, RS. Marshy depression in forest; water semipermanent, oiled; abundant grassy, herbaceous vegetation; partial shade. *Cx. (Cux.) coronator* group.
798. Canal Zone, across canal from Summit, "Empire Firing Range" (17PPA469009), 70m; 18 Nov 65, AQ, RS. Small ground pool in forest; water temporary, clear, stagnant, fresh; some grassy vegetation; bottom with plant debris. *Cx. (Cux.) nigripalpus*, *Cx. (Mel.) elevator*, *Cx. (Mel.)* ?sp 34, *Cx. (Mel.)* sp 39.
799. Canal Zone, about 2km NW of Fort Clayton, Rio Caimitillo "Lake" (17PPA5497), 15m; 19 Nov 65, AQ, RS. Lake; water permanent, clear, stagnant-slow current, fresh; abundant algae, grassy, herbaceous vegetation. *Cx. (Mel.) educator*, *Cx. (Mel.) erraticus*.
800. Canal Zone, about 2km NW of Fort Clayton, Rio Caimitillo "Lake" (17PPA5497), 15m; 19 Nov 65, AQ, RS. Aroid leaf axils (*Montrichardia arborescens*) in forest near lake; water reddish; deep shade. *Wy. (Prs.) jocosu*, *Wy. (Prs.) ypsipola*.
801. Panama, Panama City, Juan Diaz (17PPA7100), 10m; 20 Nov 65, AQ. Animal tracks in grazing area; no vegetation; bottom with mud; full sun. *An. (Nys.) ?albimanus*, *An. (Nys.) argyritarsis*, *Cx. (Cux.) nigripalpus*, *Cx. (Mel.) iolambdis*, *Ps. (Gra.) cingulata* group.
802. Canal Zone, across canal from Paraiso, Rt. K15 between Rts. K2 and K6 (17PPV4996), 50-180m; 21 Nov 65, AQ. Small ground pool; water temporary, turbid, pale brown, fresh; some algae, *Pistia* present; bottom with mud; partial shade. *Cx. (Cux.) ?coronator* group, *Cx. (Cux.) declarator* group.

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803. Canal Zone, across canal from Paraiso, Rt. K15 between Rts. K2 and K6 (17PPV4996), 50-180m; 21 Nov 65, AQ. Large ground pool; water semipermanent, clear, fresh; abundant grassy vegetation; bottom with mud. *Cx. (Mel.) iolambdis*, *Lz.* sp 3.

804. Canal Zone, across canal from Paraiso, Rt. K15 between Rts. K2 and K6 (17PPV4996), 50-180m; 21 Nov 65, AQ. Marantaceae leaf axils (*Calathea*). *Tr.* (subg. A) *ulopus*, *Wy. (Prs.) complosa*, *Wy. (Prs.)* sp undetermined.

805. Colon, Colon, Cativa (17PPA2734), 10m; 22 Nov 65, AQ, RS. Pond in grazing area; water permanent, clear, stagnant, fresh; abundant algae, grassy vegetation; partial shade. *Cx. (Mel.) bastagarius*, *Cx. (Mel.) dunni*, *Cx. (Mel.) educator*.

806. Colon, Colon, Cativa (17PPA2734), 10m; 22 Nov 65, AQ, RS. Aroid leaf axils (*Dieffenbachia*) in grazing area. *Tr.* (subg. A) *ulopus*.

807. Colon, Colon, Cativa (17PPA2734), 10m; 22 Nov 65, AQ, RS. Fallen coconut shell in grazing area. *Hg. (Hag.) lucifer*, *Wy. (Pen.) arthrostigma*, *Wy. (Tri.) aporonomia*.

808. Canal Zone, Coco Solo, France Field, residential area (17PPA2434), 10m; 22 Nov 65, AQ, RS. Terrestrial bromeliad (?pineapple) in domestic area; full sun. *Wy. (Wyo.) pertinans* group.

809. Canal Zone, Coco Solo, France Field, residential area (17PPA2434), 10m; 22 Nov 65, AQ, RS. Terrestrial bromeliad in domestic area. *Tx. (Lyn.) superbus*, *Wy. (Wyo.) pertinans* group.

810. Canal Zone, Coco Solo, France Field, residential area (17PPA2434), 10m; 22 Nov 65, AQ, RS. Terrestrial bromeliad (?*Aechmea*) in domestic area. *Cx. (Mcx.)* sp undetermined, *Tx. (Lyn.) superbus*, *Wy. (Wyo.) pertinans* group.

811. Canal Zone, Colon, 2.1km S of Margarita on Rt. R6 (17PPA2029), 5m; 22 Nov 65, AQ, RS. Epiphytic bromeliad along road; 3m above ground. *Or. phyllozoa*, *Wy. (Wyo.) celaenocephala*.

812. Canal Zone, Colon, 2.1km S of Margarita on Rt. R6 (17PPA2029), 5m; 22 Nov 65, AQ, RS. Small treehole; 2m above ground. *Co. appendiculata*.

813. Canal Zone, Gatun, Fort Davis, near entrance off Rt. R6 (17PPA198276), 10m; 22 Nov 65, AQ, RS. Adults biting and landing on man in forest; 1500hrs; deep shade. *Ae. (Och.) angustivittatus*, *Ae. (Och.) serratus* group, *Wy. (Wyo.) ?celaenocephala*, *Wy. (Wyo.) pertinans* group, *Wy.* sp undetermined.

814. Canal Zone, Gatun, Fort Davis, near entrance off Rt. R6 (17PPA198276), 10m; 22 Nov 65, AQ, RS. Small treehole in forest; 1m above ground; deep shade. *Hg. (Hag.) lucifer*.

815. Canal Zone, Gatun, Fort Davis, near entrance off Rt. R6 (17PPA198276), 10m; 22 Nov 65, AQ, RS. Terrestrial bromeliad along road. *Or. phyllozoa*, *Wy. (Wyo.) celaenocephala*, *Wy. (Wyo.) pertinans* group.

816. Canal Zone, Gatun, Fort Davis, junction of Rts. R2 and R6 (17PPA194268), 10m; 22 Nov 65, AQ, RS. *Heliconia* leaf axils; deep shade. *Wy. (Cal.) melanocephala*, *Wy. (Din.) proviolans*.

817. Panama, just E of Nuevo Emperador, 1.9km W of Rt. K16 on Rt. K19 (17PPV4095), 120m; 23 Nov 65, AQ. Epiphytic bromeliad in plantation; full sun. *Wy. (Wyo.) celaenocephala*, *Wy. (Wyo.) pertinans* group.

818. Panama, just E of Nuevo Emperador, 1.9km W of Rt. K16 on Rt. K19 (17PPV4095), 120m; 23 Nov 65, AQ. Epiphytic bromeliad in plantation; full sun. *Wy. (Wyo.) celaenocephala*, *Wy. (Wyo.) pertinans* group.

819. Panama, just E of Nuevo Emperador, 1.9km W of Rt. K16 on Rt. K19 (17PPV4095), 120m; 23 Nov 65, AQ. Epiphytic bromeliad in plantation. *Wy. (Wyo.) celaenocephala*, *Wy. (Wyo.) pertinans* group.

820. Canal Zone, about 5km NE of Nuevo Emperador, junction of Rts. K10 and K19 (17PPV435976), 100m; 23 Nov 65, AQ. Large ground pool along road; water semipermanent, turbid, fresh; abundant grassy vegetation; full sun. *Cx. (Cux.) declarator* group, *Cx. (Mel.) conspirator*, *Cx. (Mel.) egcymon*, *Cx. (Mel.) iolambdis*, *Lz.* sp 3.

821. Canal Zone, about 5km NE of Nuevo Emperador, 5.0km NW of Rt. K15 on Rt. K10 (17PPV437971), 90m; 23 Nov 65, AQ. Small ground pool at base of tree near stream in forest; water temporary, turbid, fresh; no vegetation; bottom with mud; deep shade. No specimens.

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822. Canal Zone, about 5km E of Nuevo Emperador, 3.5km NW of Rt. K15 on Rt. K10 (17PPV447960?), 140m; 23 Nov 65, AQ. Aroid leaf axils (*Dieffenbachia*). ?*Lz.* sp undetermined, *Tr.* (subg. A) *ulopus*, *Wy.* (*Cal.*) *melanocephala*, *Wy.* (*Prs.*) *complosa*, *Wy.* (*Prs.*) *jocosa*.
823. Canal Zone, about 5km NE of Nuevo Emperador, 5.0km NW of Rt. K15 on Rt. K10 (17PPV437971), 90m; 23 Nov 65, AQ. Small ground pool along road; algae, floating vegetation; partial shade. *Cx.* (*Cux.*) *mollis*, *Cx.* (*Cux.*) *nigripalpus*, *Cx.* (*Mel.*) *iolambdis*, *Lz.* sp 3.
824. Panama, just E of Nuevo Emperador, about 1.5km W of Rt. K16 on Rt. K19 (17PPV4095), 120m; 23 Nov 65, AQ. Artificial container (pan) in domestic area. *Hg.* (*Hag.*) *lucifer*, *Li.* *durhamii*.
825. Panama, just E of Nuevo Emperador, about 1.5km W of Rt. K16 on Rt. K19 (17PPV4095), 120m; 23 Nov 65, AQ. Small treehole in plantation; 1.3m above ground. *Ae.* (*Pro.*) *zavortinki*, *Hg.* (*Hag.*) *argyromeris*, *Hg.* (*Hag.*) *lucifer*, *Li.* *durhamii*.
826. Canal Zone, about 5km NE of Nuevo Emperador, junction of Rts. K10 and K19 (17PPV435976), 100m; 23 Nov 65, AQ. Artificial container (beer can) along road. *Li.* *durhamii*.
827. Canal Zone, about 5km E of Nuevo Emperador, 4.6km NW of Rt. K15 on Rt. K10 (17PPV441970), 100m; 23 Nov 65, AQ. Treehole. *Wy.* (*Tri.*) *aporonoma*.
828. Canal Zone, about 5km NE of Nuevo Emperador, junction of Rts. K10 and K19 (17PPV435976), 100m; 23 Nov 65, AQ. *Heliconia* leaf axils. *Tr.* (subg. A) *ulopus*, *Wy.* (*Cal.*) *melanocephala*.
829. Canal Zone, about 5km NE of Nuevo Emperador, junction of Rts. K10 and K19 (17PPV435976), 100m; 23 Nov 65, AQ. Marantaceae leaf axils (*Calathea*). *Tr.* (subg. A) *ulopus*, *Wy.* (*Prs.*) *complosa*, *Wy.* (*Prs.*) *ypsipola*.
830. Canal Zone, about 2km NE of Nuevo Emperador, 1.1km NW of Rt. K19 on Rt. K16 (17PPV410967), 130m; 23 Nov 65, AQ. Terrestrial bromeliad (leaves serrate). *Wy.* (*Wyo.*) *pertinans* group.
831. Canal Zone, about 2km NE of Nuevo Emperador, 1.1km NW of Rt. K19 on Rt. K16 (17PPV410967), 130m; 23 Nov 65, AQ. Aroid leaf axils (*Dieffenbachia*). *Tr.* (subg. A) *ulopus*.
832. Canal Zone, about 5km NE of Nuevo Emperador, junction of Rts. K10 and K19 (17PPV435976), 100m; 23 Nov 65, AQ. Treehole. *Cx.* (*And.*) *conservator*, *Hg.* (*Hag.*) *equinus*.
833. Canal Zone, about 5km NE of Nuevo Emperador, junction of Rts. K10 and K19 (17PPV435976), 100m; 23 Nov 65, AQ. Large ground pool. *Cx.* (*Cux.*) *coronator* group, *Cx.* (*Mel.*) *conspirator*, *Ps.* (*Jan.*) *ferox*.
834. Panama, about 3km N of Nuevo Emperador, near Huile, 5.4km NW of junction of Rts. K16 and K19 (17PPV383990?), 100m; 23 Nov 65, AQ. Large ground pool in domestic area; water semipermanent; full sun. *Ae.* (*Och.*) *angustivittatus*, *Ae.* (*Och.*) *nubilus*, *Ae.* (*Och.*) *serratus* group, *An.* (*Ano.*) *neomaculipalpus*, *Cx.* (*Cux.*) *corniger*, *Cx.* (*Cux.*) *coronator* group, *Cx.* (*Cux.*) *declarator* group, *Cx.* (*Cux.*) *mollis*, *Cx.* (*Cux.*) *nigripalpus*, *Cx.* (*Mel.*) *pilosus*, *Lz.* sp 3, *Ps.* (*Jan.*) *ferox*.
835. Panama, about 3km N of Nuevo Emperador, near Huile, 4.8km NW of junction of Rts. K16 and K19 (17PPV389986?), 100m; 23 Nov 65, AQ. Aroid leaf axils (?*Dieffenbachia*) in house. *Tr.* (subg. A) *ulopus*, *Wy.* (*Cal.*) *melanocephala*, *Wy.* (*Prs.*) *complosa*, *Wy.* (*Wyo.*) *pertinans* group.
836. Panama, Panama City, Juan Diaz (17PPA7100), 10m; 26 Nov 65, PG, AQ, RS. Small ground pool in grazing area; full sun. *An.* (*Ano.*) *neomaculipalpus*, *An.* (*Nys.*) *albimanus*, *Cx.* (*Cux.*) *coronator* group, *Cx.* (*Cux.*) *declarator* group, *Cx.* (*Mel.*) ?*pilosus*, *Ps.* (*Gra.*) *cingulata* group, *Ur.* (*Ura.*) *lowii*.
837. Panama, Panama City, Juan Diaz (17PPA7100), 10m; 27 Nov 65, PG, AQ, RS. Marshy depression. *An.* (*Ano.*) *neomaculipalpus*, *Cx.* (*Cux.*) *declarator* group, *Cx.* (*Cux.*) *mollis*, *Cx.* (*Mel.*) sp undetermined, *Ps.* (*Gra.*) *cingulata* group.
838. Panama, Panama City, Juan Diaz Race Track (17PPV6898), 10m; 27 Nov 65, AQ. Marshy depression in domestic area; water temporary. *Ae.* (*Och.*) sp undetermined, *An.* (*Ano.*) *neomaculipalpus*, *An.* (*Nys.*) *strodei*, *Cx.* (*Cux.*) *coronator* group, *Cx.* (*Cux.*) *declarator* group, *Cx.* (*Cux.*) *nigripalpus*, *Cx.* (*Mel.*) ?*iolambdis*, *Cx.* (*Mel.*) *pilosus*.
839. Canal Zone, Summit, Madden Forest Preserve, less than 200m; 29 Nov 65. Probably treehole. *Co.* *appendiculata*, *Cx.* (*And.*) *conservator*.
840. Canal Zone, Summit, Madden Forest Preserve, less than 200m; 29 Nov 65. Probably treehole or bamboo. *Cx.* (*Car.*) *secundus*, *Li.* *durhamii*, *Wy.* (*Tri.*) sp undetermined.
841. Canal Zone, Gamboa (17PPA4208), 50m; 30 Nov 65, JM. Shannon trap. *An.* (*Ano.*) *punctimacula*, *Ma.* (*Man.*) sp undetermined.

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842. Canal Zone, 15km NW of Gamboa on railroad, Frijoles (17PPA3214), 30m; 1 Dec 65, AQ, RS. Ditch along road; water semipermanent; abundant vegetation; deep shade. *Cx. (Mel.) ?iolambdis*, *Cx. (Mel.) pilosus*, *Lz. sp 3*.
843. Canal Zone, 15km NW of Gamboa on railroad, Frijoles (17PPA3214), 30m; 1 Dec 65, AQ, RS. Aroid leaf axils (elephant ear) in domestic area; full sun. *Tr. (subg. A) ulopus*, *Wy. (Cal.) melanocephala*.
844. Canal Zone, 15km NW of Gamboa on railroad, Frijoles (17PPA3214), 30m; 1 Dec 65, AQ, RS. Large treehole; 1.7m above ground. *Ae. (Pro.) thorntoni*, *Hg. (Hag.) argyromeris*.
845. Canal Zone, 15km NW of Gamboa on railroad, Frijoles (17PPA3214), 30m; 1 Dec 65, AQ, RS. Terrestrial bromeliad; full sun. *Wy. (Wyo.) pertinans* group.
846. Canal Zone, 15km NW of Gamboa on railroad, Frijoles (17PPA3214), 30m; 1 Dec 65, AQ, RS. Aroid leaf axils (elephant ear) in domestic area; partial shade. *Tr. (subg. A) ulopus*, *Wy. (Cal.) melanocephala*.
847. Canal Zone, 15km NW of Gamboa on railroad, Frijoles (17PPA3214), 30m; 1 Dec 65, AQ, RS. Treehole (in orange tree) in domestic area. *Cx. (Cux.) mollis*.
848. Canal Zone, 15km NW of Gamboa on railroad, Frijoles, "Lago Frijolitos" (17PPA3214?), 30 m; 1 Dec 65, AQ. Lake margins. *Cx. (Cux.) declarator* group, *Cx. (Cux.) nigripalpus*, *Cx. (Mel.) dunni*, *Cx. (Mel.) educator*, *Cx. (Mel.) egcymon*, *Cx. (Mel.) pilosus*.
849. Canal Zone, 15km NW of Gamboa on railroad, Frijoles (17PPA3214), 30m; 1 Dec 65, AQ, RS. Marantaceae leaf axils (*Calathea*) in clearing; partial shade. *Wy. (Prs.) ypsipola*.
850. Canal Zone, 15km NW of Gamboa on railroad, Frijoles (17PPA3214), 30m; 1 Dec 65, AQ, RS. Leaf axils of terrestrial plant. *Wy. (Wyo.) pertinans* group.
851. Canal Zone, Frijoles, Barro Colorado Island (17PPA276129), 40m; 3 Dec 65, AQ. Aroid leaf axils (elephant ear) in domestic area. *Tr. (subg. A) ulopus*.
852. Canal Zone, Frijoles, Barro Colorado Island (17PPA2712), 25-170m; 3 Dec 65, AQ, RS. Terrestrial bromeliad in forest; partial shade. *Co. sp* undetermined, *Wy. (Hys.) sp D*, *Wy. (Hys.) sp* undetermined, *Wy. (Wyo.) pertinans* group.
853. Canal Zone, Frijoles, Barro Colorado Island (17PPA276129), 40m; 3 Dec 65, AQ. *Heliconia mariae* leaf axils in domestic area; full sun. *Tr. (subg. A) ulopus*, *Wy. (Cal.) melanocephala*.
854. Canal Zone, Frijoles, Barro Colorado Island (17PPA2712), 25-170m; 3 Dec 65, AQ. Rock-hole. *Cx. (Lut.) sp* undetermined, *Cx. (Mel.) conspirator*, *Cx. (Mel.) elevator*.
855. Canal Zone, Frijoles, Barro Colorado Island (17PPA276129), 40m; 3 Dec 65, AQ. Terrestrial bromeliad in domestic area; full sun. *Wy. (Wyo.) pertinans* group.
856. Canal Zone, Frijoles, Barro Colorado Island (17PPA2712), 25-170m; 3 Dec 65, AQ. Treehole; 1m above ground. *Ae. (Pro.) galindoi*, *Hg. (Hag.) equinus*, *Hg. (Hag.) lucifer*, *Li. durhamii*.
857. Canal Zone, Frijoles, Barro Colorado Island (17PPA2712), 25-170m; 3 Dec 65, AQ. Treehole; 1.3m above ground. *Hg. (Hag.) lucifer*.
858. Canal Zone, Frijoles, Barro Colorado Island (17PPA2712), 25-170m; 3 Dec 65, AQ. Aroid leaf axils (*Dieffenbachia*). *Wy. (Prs.) complosa*.
859. Canal Zone, Frijoles, Barro Colorado Island (17PPA2712), 25-170m; 3 Dec 65, AQ. Artificial container (enamel pan) in streambed. *An. (Ano.) eiseni*, *Cx. (Mel.) elevator*, *Li. asulleptus*, *Wy. (Pen.) arthrostigma*.
860. Canal Zone, Frijoles, Barro Colorado Island (17PPA2712), 25-170m; 3 Dec 65, AQ. Cut or broken bamboo. *An. (Ano.) eiseni*, *Hg. (Hag.) lucifer*, *Tx. (Lyn.) hypoptes*, *Wy. (Pen.) arthrostigma*.
861. Canal Zone, Frijoles, Barro Colorado Island (17PPA2712), 25-170m; 4 Dec 65, AQ. Treehole; 1.7m above ground. *Cx. (And.) conservator*, *Cx. (Cux.) mollis*, *Hg. (Hag.) lucifer*.
862. Canal Zone, Frijoles, Barro Colorado Island (17PPA2712), 25-170m; 4 Dec 65, AQ. Epiphytic bromeliad. *Wy. (Wyo.) pertinans* group.
863. Canal Zone, Frijoles, Barro Colorado Island (17PPA2712), 25-170m; 4 Dec 65, AQ. Epiphytic bromeliad; 3.3m above ground. *Wy. (Wyo.) pertinans* group.
864. Canal Zone, Frijoles, Barro Colorado Island (17PPA2712), 25-170m; 4 Dec 65, AQ. Marantaceae flower bracts (*Calathea*). *Wy. (Dec.) rorotai* group, *Wy. (Dec.) sp* undetermined.

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865. Canal Zone, Frijoles, Barro Colorado Island (17PPA2712), 25-170m; 4 Dec 65, AQ. Marantaceae leaf axils (*Calathea*). *Tr. (Cte.) magnum*.
866. Canal Zone, Frijoles, Barro Colorado Island (17PPA2712), 25-170m; 4 Dec 65, AQ. Aroid leaf axils (*Dieffenbachia*). *Wy. (Prs.) complosa*.
867. Canal Zone, Frijoles, Barro Colorado Island (17PPA2712), 25-170m; 4 Dec 65, AQ. Epiphytic bromeliad; 4m above ground. *Cx. (Mcx.)* sp undetermined, *Wy. (Hys.)* sp undetermined, *Wy. (Wyo.) pertinans* group.
868. Canal Zone, about 5km N of Nuevo Emperador, about 2km NE of Huile, 1.6km N of Rt. K16A to Huile, on Rt. K16 (17PPV4099), 150m; 7 Dec 65, AQ. *Heliconia ?mariae* leaf axils in forest. *Wy. (Din.) proviolans*, *Wy. (Jnc.) clasoleuca*.
869. Canal Zone, about 6km N of Nuevo Emperador, about 3km NE of Huile, 2.7km N of Rt. K16A to Huile, on Rt. K16 (17PPA4000), 150m; 7 Dec 65, AQ. *Heliconia* flower bracts in forest. *Tr. (subg. A) ulopus*, *Wy. (Prs.) jocosa*.
870. Canal Zone, about 7km N of Nuevo Emperador, about 4km N of Huile, 5.3km N of Rt. K16A to Huile, on old Rt. K16 (17PPA3902), 150m; 7 Dec 65, AQ. Small ground pool in forest; water turbid; full sun. *Cx. (Cux.) corniger*, *Cx. (Lut.) allostigma*.
871. Canal Zone, about 7km N of Nuevo Emperador, about 4km N of Huile, 5.3km N of Rt. K16A to Huile, on old Rt. K16 (17PPA3902), 150m; 7 Dec 65, AQ. *Heliconia ?mariae* leaf axils near stream in forest. *Wy. (Din.) proviolans*, *Wy. (Jnc.) clasoleuca*.
872. Canal Zone, about 7km N of Nuevo Emperador, about 4km N of Huile, 5.3km N of Rt. K16A to Huile, on old Rt. K16 (17PPA3902), 150m; 7 Dec 65, AQ. *Heliconia* flower bracts in forest. *Tr. (Cte.) magnum*, *Wy. (Dec.)* sp G.
873. Canal Zone, about 7km N of Nuevo Emperador, about 4km N of Huile, 5.3km N of Rt. K16A to Huile, on old Rt. K16 (17PPA3902), 150m; 7 Dec 65, AQ. *Heliconia* leaf axils in forest. *Tr. (Cte.) magnum*.
874. Canal Zone, about 7km N of Nuevo Emperador, about 4km N of Huile, 5.3km N of Rt. K16A to Huile, on old Rt. K16 (17PPA3902), 150m; 7 Dec 65, AQ. Aroid leaf axils (*Dieffenbachia*) in forest. *Tr. (subg. A) ulopus*, *Wy. (Prs.) complosa*, *Wy. (Prs.)* sp undetermined.
875. Canal Zone, about 7km N of Nuevo Emperador, about 4km N of Huile, 5.3km N of Rt. K16A to Huile, on old Rt. K16 (17PPA3902), 150m; 7 Dec 65, AQ. Small treehole in forest; 1.3m above ground. *Ae. (Pro.) thorntoni*.
876. Canal Zone, about 7km N of Nuevo Emperador, about 4km N of Huile, 5.3km N of Rt. K16A to Huile, on old Rt. K16 (17PPA3902), 150m; 7 Dec 65, AQ. Streamside rockhole in forest. *Cx. (Lut.)* sp undetermined, *Cx. (Mel.) elevator*.
877. Panama, about 3km N of Nuevo Emperador, Huile (17PPV3998), 100m; 7 Dec 65, AQ. Terrestrial bromeliad (pineapple) in cultivated area; full sun. *Wy. (Wyo.) pertinans* group.
878. Panama, about 3km N of Nuevo Emperador, Huile (17PPV3998), 100m; 7 Dec 65, AQ. Epiphytic bromeliad; 3.3m above ground. *Wy. (Wyo.) celaecephala*, *Wy. (Wyo.) pertinans* group.
879. Panama, about 3km N of Nuevo Emperador, Huile (17PPV3998), 100m; 7 Dec 65, AQ. Epiphytic bromeliad. *Wy. (Wyo.) pertinans* group.
880. Canal Zone, across canal from Balboa, Rodman Naval Station vicinity (17PPV5688), near sea level; 9 Dec 65, AQ. Crabhole. *De. pseudes*.
881. Canal Zone, across canal from Balboa, Rodman Naval Station vicinity (17PPV5688), near sea level; 9 Dec 65, AQ. Crabhole. No specimens.
882. Canal Zone, about 10km NW of Gamboa, 10.1km NW of "tank farm" on pipeline road (17PPA3614?), 150m; 10 Dec 65, PG, AQ, RS. Marantaceae flower bracts (*Calathea insignis*) in forest along road; partial shade. *Wy. (Dec.) rorotai* group, *Wy. (Dec.)* sp undetermined.
883. Canal Zone, across canal from Balboa, Rodman Naval Station vicinity (17PPV5688), near sea level; 11 Dec 65, AQ, RS. Large crabhole. *Cx. (Mel.)* sp undetermined.
884. Canal Zone, across canal from Balboa, Rodman Naval Station vicinity (17PPV5688), near sea level; 11 Dec 65, AQ, RS. Medium crabhole. *Cx. (Mel.) conspirator*.
885. Canal Zone, across canal from Balboa, Rodman Naval Station vicinity (17PPV5688), near sea level; 11 Dec 65, AQ, RS. Medium crabhole. *De. pseudes*.

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886. Canal Zone, across canal from Balboa, Rodman Naval Station vicinity (17PPV5688), near sea level; 11 Dec 65, AQ, RS. Medium crabhole. *De. pseudes*.
887. Canal Zone, across canal from Balboa, Rodman Naval Station vicinity (17PPV5688), near sea level; 11 Dec 65, AQ, RS. Small crabhole. *Cx. (Cux.) inflictus* group, *De. pseudes*.
888. Canal Zone, across canal from Balboa, Rodman Naval Station vicinity (17PPV5688), near sea level; 11 Dec 65, AQ, RS. Large crabhole. *Cx. (Tin.) latisquama*, *De. pseudes*.
889. Canal Zone, across canal from Balboa, Rodman Naval Station vicinity (17PPV5688), near sea level; 11 Dec 65, AQ, RS. Small crabhole. *Cx. (Tin.) latisquama*, *De. pseudes*.
890. Canal Zone, across canal from Balboa, Rodman Naval Station vicinity (17PPV5688), near sea level; 11 Dec 65, AQ, RS. Large crabhole. *De. pseudes*.
891. Canal Zone, across canal from Balboa, Rodman Naval Station vicinity (17PPV5688), near sea level; 12 Dec 65, AQ. Large crabhole. *Cx. (Tin.) latisquama*, *De. pseudes*.
892. Canal Zone, across canal from Balboa, Rodman Naval Station vicinity (17PPV5688), near sea level; 12 Dec 65, AQ. Crabhole. *De. pseudes*.
893. Canal Zone, across canal from Balboa, Rodman Naval Station vicinity (17PPV5688), near sea level; 12 Dec 65, AQ. Small crabhole. No specimens.
894. Canal Zone, across canal from Balboa, Rodman Naval Station vicinity (17PPV5688), near sea level; 12 Dec 65, AQ. Small crabhole. *De. pseudes*.
895. Canal Zone, across canal from Balboa, Rodman Naval Station vicinity (17PPV5688), near sea level; 12 Dec 65, AQ. Small crabhole. *Cx. (Tin.) latisquama*.
896. Canal Zone, about 3km NW of Paraiso, "Culebra, about 0.8km N of Contractor's hill cutoff" (17PPA4700), 70m; 13 Dec 65, RS. Marantaceae leaf axils (*Calathea*) in clearing; partial shade. *Wy. (Prs.) complosa*, *Wy. (Prs.) jocos*.
897. Canal Zone, about 3km NW of Paraiso, "Culebra, about 0.8km N of Contractor's hill cutoff" (17PPA4700), 70m; 13 Dec 65, AQ. Treehole; 2m above ground. *Hg. (Hag.) equinus*, *Tx. (Lyn.)* sp undetermined.
898. Canal Zone, about 3km NW of Paraiso, "Culebra, about 0.8km N of Contractor's hill cutoff" (17PPA4700), 70m; 13 Dec 65, AQ. Small treehole; 1.5m above ground. *Hg. (Hag.) lucifer*.
899. Canal Zone, about 3km NW of Paraiso, "Culebra, about 0.8km N of Contractor's hill cutoff" (17PPA4700), 70m; 13 Dec 65, RS. Leaf axils of terrestrial plant. *Tr. (subg. A) ulopus*, *Wy. (Prs.) jocos*.
900. Canal Zone, about 2km NW of Paraiso, "Culebra, about 0.8km S of Contractor's hill cutoff" (17PPV4799), 70m; 13 Dec 65, AQ, RS. *Heliconia* leaf axils from many plants. *Tr. (subg. A) ulopus*, *Wy. (Prs.) jocos*, *Wy. (Prs.) ypsipola*.
901. Canal Zone, about 10km W of Gamboa, Barbacoas Island, Tabernilla Point (17PPA319091), 30m; 14 Dec 65, AQ, RS. Large ground pool in forest; water pale orange, fresh, slimy; abundant grassy vegetation; partial shade. *Cx. (Cux.) ?chidesteri*.
902. Canal Zone, about 10km W of Gamboa, Barbacoas Island, Tabernilla Point (17PPA319091), 30m; 14 Dec 65, AQ, RS. Fallen spathe. *Li. asulleptus*.
903. Canal Zone, about 10km W of Gamboa, Barbacoas Island, S shore (17PPA3208), 30m; 14 Dec 65, AQ. Small ground pool. No specimens.
904. Canal Zone, about 10km W of Gamboa, Barbacoas Island, S shore (17PPA3208), 30m; 14 Dec 65, AQ. Treehole; 0.3m above ground. *Hg. (Hag.) lucifer*.
905. Not used.
906. Canal Zone, across canal from Balboa, Rodman Naval Station vicinity (17PPV5688), near sea level; 15 Dec 65, AQ, RS. Medium crabhole. *De. pseudes*.
907. Canal Zone, across canal from Balboa, Rodman Naval Station vicinity (17PPV5688), near sea level; 15 Dec 65, AQ, RS. Small crabhole. *Cx. (Tin.) latisquama*, *De. pseudes*.
908. Canal Zone, across canal from Balboa, Rodman Naval Station vicinity (17PPV5688), near sea level; 15 Dec 65, AQ, RS. Crabhole. *Cx. (Tin.) latisquama*, *De. pseudes*.
909. Canal Zone, across canal from Balboa, Rodman Naval Station vicinity (17PPV5688), near sea level; 15 Dec 65, AQ, RS. Medium crabhole. *Cx. (Tin.) latisquama*, *De. pseudes*.



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910. Canal Zone, across canal from Balboa, Rodman Naval Station vicinity (17PPV5688), near sea level; 15 Dec 65, AQ, RS. Small crabhole. *Cx. (Tin.) latisquama*, *De. pseudos*.
911. Colon, Gatuncillo, Rio Gatuncillo (17PPA4822), 50m; 17 Dec 65, RS. Uncut internodes of bamboo in forest; partial shade. *Sa. (Sbn.) undosus*.
912. Canal Zone, Gamboa, N shore of Rio Chagres, 30m; 17 Dec 65, RS. Cut or broken bamboo in forest; partial shade. *Sa. (Sbn.) undosus*.
- 912A. Canal Zone, Gamboa (17PPA4208), 50m; 13 Dec 65, JM. Shannon trap; baited with horse. *An. (Ano.) punctimacula*, *An. (Nys.) triannulatus*, *Cq. (Rhy.) fasciolata*, *Cx. (Cux.)* sp undetermined, *Ma. (Man.)* spp undetermined.
913. Canal Zone, Gamboa, N shore of Rio Chagres, 30m; 17 Dec 65, RS. Uncut internode of bamboo in forest; water clear. *Sa. (Sbn.) undosus*.
914. Canal Zone, Gamboa, N shore of Rio Chagres, 30m; 17 Dec 65, RS. Uncut internode of bamboo in forest; water clear, amber. *Sa. (Sbn.) undosus*.
915. Canal Zone, Gamboa, N shore of Rio Chagres, 30m; 17 Dec 65, RS. Uncut internode of bamboo in forest; water clear, amber. *Sa. (Sbn.) undosus*.
916. Canal Zone, Gamboa, N shore of Rio Chagres, 30m; 17 Dec 65, RS. Bamboo in forest. *Sa. (Sbn.) undosus*.
917. Canal Zone, Gamboa, N shore of Rio Chagres, 30m; 17 Dec 65, RS. Uncut internode of bamboo in forest; water clear, amber. *Sa. (Sbn.) undosus*.
918. Canal Zone, Gamboa, N shore of Rio Chagres, 30m; 17 Dec 65, RS. Uncut internode of bamboo in forest; water brown. *Sa. (Sbn.) undosus*.
919. Canal Zone, Gamboa, N shore of Rio Chagres, 30m; 17 Dec 65, RS. Uncut internode of bamboo in forest; water clear. *Sa. (Sbn.) undosus*.
920. Canal Zone, Gamboa, N shore of Rio Chagres, 30m; 17 Dec 65, RS. Uncut internode of bamboo in forest; water clear, pale brown. *Sa. (Sbn.) undosus*.
921. Canal Zone, Gamboa, N shore of Rio Chagres, 30m; 17 Dec 65, RS. Uncut internode of bamboo in forest; water clear. *Sa. (Sbn.) undosus*.
922. Canal Zone, Gamboa, N shore of Rio Chagres, 30m; 17 Dec 65, RS. Uncut internodes of bamboo in forest. *Sa. (Sbn.) undosus*, *Wy. (Mia.) codiocampa*, *Wy. (Pen.) arthrostigma*.
923. Canal Zone, Gamboa, Rio Chagres, 30m; 18 Dec 65, JM. Larvae attached to *Sagittaria* roots. *Ma. (Man.) titillans*.
924. Canal Zone, N end of Madden Lake, Rio Pequeni, Pequeni (17PPA604340), 90m; 10 Dec 65, OM. Treehole; 1.3m above ground. *Hg. (Hag.) lucifer*, *Li. durhamii*, *Wy. (Tri.)* sp 8, *Wy. (subg. D) chalccephala*.
925. Canal Zone, N end of Madden Lake, Rio Pequeni, Pequeni (17PPA604340), 90m; 11 Dec 65, OM. Treehole. *Wy. (Tri.) aporonoma*.
926. Canal Zone, N end of Madden Lake, Rio Pequeni, Pequeni (17PPA604340), 90m; 11 Dec 65, OM. Epiphytic bromeliad; 1.3m above ground. *Wy. (Hys.)* sp undetermined, *Wy. (Wyo.) simmsi*.
927. Canal Zone, N end of Madden Lake, Rio Pequeni, Pequeni (17PPA604340), 90m; 12 Dec 65, OM. Treehole; 2m above ground. *Cx. (Car.) bihaicolus*, *Cx. (Cux.) mollis*.
928. Darien, Pucro, Cerro Mali, 1500m; 25 May-7 Jun 63, GML. Possibly bamboo internodes in forest. *Or. ?albicosta*, *Tr. (Shn.)* 4 n. spp, *Tr. (Trc.)* n. sp.
929. Darien, Pucro, Cerro Mali, 1500m; 25 May-7 Jun 63, GML. Possibly bamboo internodes in forest. *Cx. (Car.) metempsychus*, *Cx. (Car.)* Panama form, *Tr. (Trc.) lampropus*.
930. Darien, Pucro, Cerro Mali, 1500m; 25 May-7 Jun 63, GML. Probably bromeliads in forest. *An. (Ker.) neivai*, *Cx. (Mca.) erethyzonfer*, *Wy. (subg. B)* ?sp 46.
931. Darien, Pucro, Cerro Mali, 1500m; 25 May-7 Jun 63, GML. Possibly bamboo internodes in forest. *Ca. (Car.) metempsychus*, *Tr. (Trc.) digitatum*.
932. Darien, Pucro, Cerro Mali, 1500m; 25 May-7 Jun 63, GML. Possibly bamboo internodes in forest. *Cx. (Car.) bihaicolus*, *Tr. (Shn.)* sp undetermined, *Wy. (?Cal.)* sp 77.
933. Darien, Pucro, Cerro Mali, 1500m; 25 May-7 Jun 63, GML. Probably bromeliads in forest. *Cx. (Mcx.) jenningsi* group, *Cx. (Mcx.) ?kukenan*, *Cx. (subg. B)* ?sp 46, *Wy. (Nuz.)* sp 24, *Wy. (Wyo.) abebela*.

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934. Canal Zone, Panama City, Albrook Field (17PPV578912?), near sea level; 22 Dec 65, RS. Light trap. *Cx. (Cux.) nigripalpus*, *De. pseudos*, *Ur. (Ura.) lowii*.
935. Not used.
936. Panama, about 4km NE of Pequeni, Rio Pequeni, Estacion Hidro el Candelaria (17PPA6237), 100m; 6 May 66, AQ. *Heliconia* leaf axils in forest; water foul; deep shade. *Wy. (Din.) proviolans*, *Wy. (Inc.) clasoleuca*.
937. Panama, about 4km NE of Pequeni, Rio Pequeni, Estacion Hidro el Candelaria (17PPA6237), 100m; 6 May 66, AQ. Epiphytic bromeliads in forest; 2-4m above ground; partial shade. *Cx. (Mcx.)* sp undetermined, *Or. phyllozoa*, *Tx. (Lyn.)* sp undetermined, *Wy. (Hys.)* sp A, *Wy. (Hys.)* sp undetermined, *Wy. (Wyo.) simmsi*.
938. Panama, about 4km NE of Pequeni, Rio Pequeni, Estacion Hidro el Candelaria (17PPA6237), 100m; 6 May 66, AQ. Aroid leaf axils (*Dieffenbachia*) in forest; deep shade. *Tr. (subg. A) ulopus*.
939. Panama, Pequeni, Rio Pequeni, "Quebrada Escondida," ?100m; 8 May 66, AQ. Fallen palm spathes in forest; water clear; deep shade. *Cx. (Car.) secundus*, *Li. asulleptus*, *Li. durhamii*.
940. Panama, about 4km NE of Pequeni, Rio Pequeni, Estacion Hidro el Candelaria (17PPA6237), 100m; 8 May 66, AQ. Fallen palm spathes in forest; water clear; deep shade. *Cx. (Car.) secundus*, *Li. asulleptus*, *Tr. (Trc.) digitatum*.
941. Panama, Pequeni, Rio Pequeni, ?90m; 9 May 66, AQ. Aroid leaf axils (*Dieffenbachia*) at edge of river in partial forest. *Tr. (subg. A) ulopus*.
942. Panama, about 4km NE of Pequeni, Rio Pequeni, Estacion Hidro el Candelaria (17PPA6237), 100m; 7-8 May 66, AQ. Shannon trap at edge of forest on ridge above stream; 1800-2100hrs. *An. (Ker.) neivai*, *An. (Lph.) squamifemur*, *An. (Nys.) triannulatus*.
943. Canal Zone, about 6km NW of Gatun, Mojinga Swamp (17PPA1329), 5m; 1 Mar 66, AQ. Streamside rockholes. *Cx. (Mel.) ?jubilifer*.
944. Darien, about 30km N of La Palma, near Santa Fe, 20m; 22 Nov 66, GB. Treehole in forest; 0.5m above ground; water clear, pH6; partial shade. *Ae. (Pro.) thorntoni*, *Co. appendiculata*.
945. Darien, about 30km N of La Palma, near Santa Fe, 20m; 22 Nov 66, GB. Treehole in forest; 1m above ground; water clear, pH6; partial shade. *Ae. (Pro.) thorntoni*, *Cx. (And.) corrigani*.
946. Darien, about 30km N of La Palma, about 0.8km from Santa Fe, 20m; 22 Nov 66, GB. *Heliconia* leaf axils in forest; partial shade. *Tr. (subg. A) ulopus*, *Wy. (Prs.) complosa*.
947. Darien, about 30km N of La Palma, Santa Fe, "Army Camp," 20m; 23 Nov 66, GB. Artificial container (urinal) in domestic area; water clear; full sun. *Cx. (Cux.) corniger*, *Cx. (Cux.) coronator* group, *Cx. (Lut.)* sp undetermined.
948. Darien, about 4km NE of Morti, "Morti Hydro" (18PSE8182), 100m; 26 Nov 66, GB. Medium treehole at edge of forest; 1m above ground; deep shade. *Cx. (Car.) urichii*.
949. Darien, about 4km NE of Morti, "Morti Hydro" (18PSE8182), 100m; 26 Nov 66, GB. Treehole in forest; 3m above ground; water clear; deep shade. No specimens.
950. Darien, about 4km NE of Morti, "Morti Hydro" (18PSE8182), 100m; 26 Nov 66, GB. Treehole in forest; 2m above ground; deep shade. Contamination.
951. Darien, about 4km NE of Morti, "Morti Hydro" (18PSE8182), 120m; 26 Nov 66, GB. Treehole in fallen tree at edge of clearing; 0.5m above ground; partial shade. *Hg. (Hag.) lucifer*, *Li. asulleptus*, *Li. durhamii*, *Wy. (Tri.)* sp undetermined.
952. Darien, about 4km NE of Morti, "Morti Hydro" (18PSE8182), 100m; 26 Nov 66, GB. Artificial container (tin) at edge of clearing; water clear; full sun. *Cx. (Cux.) coronator* group, *Li. durhamii*.
953. Darien, about 4km NE of Morti, "Morti Hydro" (18PSE8182), 100m; 27 Nov 66, GB. Fallen cacao pod. *Li. asulleptus*, *Li. durhamii*, *Wy. (Tri.)* sp undetermined.
954. Darien, about 4km NE of Morti, "Morti Hydro" (18PSE8182), 100m; 27 Nov 66, GB. Artificial container (old tent) in domestic area; water clear; bottom with plant debris; full sun. *Cx. (Cux.) coronator* group, *Cx. (Cux.) mollis*.
955. Darien, about 4km NE of Morti, "Morti Hydro" (18PSE8182), 80m; 28 Nov 66, GB. Epiphytic bromeliads in forest; 2m above ground. *Or. phyllozoa*, *Wy. (Hys.)* sp A, *Wy. (Wyo.) melanopus*, *Wy. (Wyo.) pertinans* group sp Q, *Wy. (Wyo.) pertinans* group sp undetermined, *Wy. (Wyo.) simmsi*.

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956. Darien, about 4km NE of Morti, "Morti Hydro" (18PSE8182), 80m; 28 Nov 66, GB. Epiphytic bromeliad in forest; 5m above ground; partial shade. *Wy. (Hys.)* sp undetermined, *Wy. (Wyo.) pertinans* group sp Q, *Wy. (Wyo.) pertinans* group sp T, *Wy. (Wyo.) pertinans* group sp undetermined.
957. Darien, about 4km NE of Morti, "Morti Hydro" (18PSE8182), 80m; 28 Nov 66, GB. Tree-hole in forest; 3m above ground; partial shade. *Co. appendiculata*.
958. Darien, about 4km NE of Morti, "Morti Hydro" (18PSE8182), 100m; 29 Nov 66, GB. Tree-hole in forest; 2m above ground; deep shade. *Cx. (And.) conservator*, *Cx. (Mel.) arboricolus*, *Hg. (Con.) clarki*.
959. Darien, about 4km NE of Morti, "Morti Hydro" (18PSE8182), 100m; 29 Nov 66, GB. Tree-hole in fallen tree in clearing; 0.5m above ground; full sun. No specimens.
960. Darien, about 4km NE of Morti, "Morti Hydro" (18PSE8182), 100m; 29 Nov 66, GB. Small treehole in forest; 3m above ground; deep shade. *Cx. (Cux.) mollis*, *Or. fascipes*.
961. Darien, about 4km NE of Morti, "Morti Hydro," along Rio Morti (18PSE8182), 80m; 29 Nov 66, GB. Artificial container (paper cup). *Li. asulleptus*, *Li. durhamii*.
962. Darien, about 4km NE of Morti, "Morti Hydro" (18PSE814826), 80m; 1 Dec 66, GB, RH. Epiphytic bromeliads in forest near stream; 10m above ground; deep shade. *Or. phyllozoa*, *Wy. (Hys.)* sp undetermined, *Wy. (Wyo.) pertinans* group sp P, *Wy. (Wyo.) pertinans* group sp T, *Wy. (Wyo.) pertinans* group sp undetermined.
963. Darien, about 4km NE of Morti, "Morti Hydro" (18PSE8182), 80m; 1 Dec 66, GB, RH. Epiphytic bromeliad near stream in forest; 8m above ground; deep shade. *Or. phyllozoa*, *Tx. (Lyn.) superbus*, *Wy. (Hys.)* sp undetermined, *Wy. (Wyo.) pertinans* group sp Q, *Wy. (Wyo.) pertinans* group sp U, *Wy. (Wyo.) pertinans* group sp undetermined.
964. Darien, about 4km NE of Morti, "Morti Hydro" (18PSE8182), 80m; 1 Dec 66, GB, RH. Epiphytic bromeliads near stream in forest; 5-7m above ground; partial shade. *An. (Ker.) neivai*, *Or. phyllozoa*, *Tx. (Lyn.) superbus*, *Wy. (Hys.)* sp A, *Wy. (Hys.)* sp undetermined, *Wy. (Wyo.) melanopus*, *Wy. (Wyo.) pertinans* group sp Q, *Wy. (Wyo.) pertinans* group sp undetermined, *Wy. (Wyo.) simmsi*.
965. Darien, about 4km NE of Morti, "Morti Hydro" (18PSE812824), 80m; 1 Dec 66, GB, RH. Epiphytic bromeliads near stream in forest; 5-6m above ground; deep shade. *Or. phyllozoa*, *Wy. (Hys.)* sp A, *Wy. (Hys.)* sp undetermined, *Wy. (Wyo.) pertinans* group sp Q, *Wy. (Wyo.) pertinans* group sp undetermined.
966. Darien, about 4km NE of Morti, "Morti Hydro" (18PSE812824), 80m; 1 Dec 66, GB, RH. Epiphytic bromeliads in forest; 5-6m above ground. *An. (Ker.) neivai*, *Cx. (Mcx.)* sp undetermined, *Or. phyllozoa*, *Wy. (Hys.)* sp A, *Wy. (Hys.)* sp undetermined.
967. Darien, about 4km NE of Morti, "Morti Hydro" (18PSE8182), 80m; 1 Dec 66, GB, RH. Large treehole in forest; 2.5m above ground. *Cx. (And.) corrigani*, *Cx. (Cux.) mollis*.
968. Darien, about 4km NE of Morti, "Morti Hydro" (18PSE8182), 80m; 1 Dec 66, GB, RH. Tree-hole in forest near stream; 2m above ground; deep shade. No specimens.
969. Darien, about 4km NE of Morti, "Morti Hydro" (18PSE8182), 80m; 2 Dec 66, GB, RH. Epiphytic bromeliad near stream in forest; 5m above ground; partial shade. *Cx. (Mcx.) gaudeator*, *Wy. (Hys.)* sp A, *Wy. (Hys.)* sp undetermined, *Wy. (Wyo.) pertinans* group sp Q, *Wy. (Wyo.) pertinans* group sp T, *Wy. (Wyo.) pertinans* group sp undetermined.
970. Darien, Morti, near "Morti Hydro," 250m; 2 Dec 66, GB. Adults taken biting-landing, flying, resting at ground level in forest; 1200hrs; deep-partial shade. *Wy. (Wyo.) pertinans* group sp T, *Wy. (Wyo.) pertinans* group sp undetermined, *Wy. spp* undetermined.
971. Darien, about 4km NE of Morti, "Morti Hydro" (18PSE8182), 80m; 2 Dec 66, GB, RH. Epiphytic bromeliads near stream in forest; 4-5m above ground. *An. (Ker.) neivai*, *Cx. (Mcx.)* sp undetermined, *Wy. (Hys.)* sp undetermined, *Wy. (Wyo.) melanopus*, *Wy. (Wyo.) pertinans* group sp Q, *Wy. (Wyo.) pertinans* group sp T, *Wy. (Wyo.) pertinans* group sp undetermined.
972. Darien, about 4km NE of Morti, "Morti Hydro" (18PSE8182), 80m; 2 Dec 66, GB, RH. Epiphytic bromeliad in forest; 4m above ground. *Wy. (Wyo.) pertinans* group sp T, *Wy. (Wyo.) pertinans* group sp undetermined.

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973. Darien, about 4km NE of Morti, "Morti Hydro" (18PSE8182), 80m; 2 Dec 66, GB, RH. Epiphytic bromeliad in forest; 5m above ground. *Wy. (Wyo.) pertinans* group sp Q, *Wy. (Wyo.) pertinans* group sp T, *Wy. (Wyo.) pertinans* group sp undetermined.
974. Darien, about 4km NE of Morti, "Morti Hydro" (18PSE8182), 80m; 3 Dec 66, GB, RH. Epiphytic bromeliad in cacao plantation; 7m above ground; deep shade. *Or. phyllozoa*, *Wy. (Hys.)* sp A, *Wy. (Hys.)* sp undetermined, *Wy. (Wyo.) pertinans* group sp P, *Wy. (Wyo.) pertinans* group sp T, *Wy. (Wyo.) pertinans* group sp undetermined, *Wy. (Wyo.) ?simmsi*.
975. Darien, about 4km NE of Morti, "Morti Hydro" (18PSE8182), 80m; 3 Dec 66, GB. Artificial container (tin can) in cacao plantation; deep shade. *Li. durhamii*.
976. Darien, about 4km NE of Morti, "Morti Hydro" (18PSE8182), 80m; 3 Dec 66, GB. Leaf axils of terrestrial plant (?banana) in plantation. *Tr. (subg. A) ulopus*, *Wy. (Prs.) complosa*.
977. Darien, about 4km NE of Morti, "Morti Hydro" (18PSE8182), 80m; 3 Dec 66, GB. *Heliconia* leaf axils in plantation; partial shade. *Wy. (Din.) proviolans*, *Wy. (Jnc.) clasoleuca*.
978. Darien, about 4km NE of Morti, "Morti Hydro" (18PSE8182), 80m; 3 Dec 66, GB, RH. Large treehole in plantation; 2-3m above ground. *Ae. (Pro.) zavortinki*, *Cx. (Cux.) mollis*.
979. Darien, about 4km NE of Morti, "Morti Hydro" (18PSE8182), 80m; 3 Dec 66, GB, RH. Treehole in forest; 0.5m above ground; deep shade. *Cx. (Cux.) mollis*.
980. Darien, about 4km NE of Morti, "Morti Hydro" (18PSE8182), 80m; 4 Dec 66, GB. Epiphytic bromeliad in forest; 2m above ground. *An. (Ker.) neivai*, *Cx. (Mcx.) gaudeator*, *Or. phyllozoa*, *Wy. (Hys.)* sp A, *Wy. (Hys.)* sp undetermined, *Wy. (Wyo.) pertinans* group, *Wy. (Wyo.) simmsi*.
981. Darien, about 4km NE of Morti, "Morti Hydro" (18PSE8182), 80m; 5 Dec 66, GB. Epiphytic bromeliad (serrate leaf margins) in forest; 1m above ground; deep shade. *Co.* sp 41, *Wy. (Hys.)* sp A, *Wy. (Hys.)* sp D, *Wy. (Hys.)* sp undetermined, *Wy. (Wyo.) pertinans* group sp Q, *Wy. (Wyo.) pertinans* group sp undetermined.
982. Darien, about 4km NE of Morti, "Morti Hydro" (18PSE8182), 80m; 5 Dec 66, GB. Epiphytic bromeliad (entire leaf margins) in forest; 3m above ground; deep shade. *Cx. (Mcx.)* sp undetermined, *Wy. (Hys.)* sp A, *Wy. (Hys.)* sp undetermined, *Wy. (Wyo.) pertinans* group sp Q, *Wy. (Wyo.) pertinans* group sp undetermined, *Wy. (Wyo.) simmsi*.
983. Darien, about 4km NE of Morti, "Morti Hydro" (18PSE8182), 80m; 5 Dec 66, GB. Treehole in forest; water volume about 4 l; 1m above ground; deep shade. *Or. fascipes*.
984. Darien, about 4km NE of Morti, "Morti Hydro" (18PSE8182), 80m; 7 Dec 66, GB, RH. Epiphytic bromeliad in forest; 2m above ground. *An. (Ker.) neivai*, *Cx. (Mcx.) daumastocampa*, *Cx. (Mcx.) gaudeator*, *Or. phyllozoa*, *Wy. (Hys.)* sp A, *Wy. (Hys.)* sp undetermined, *Wy. (Wyo.) pertinans* group.
985. Darien, about 4km NE of Morti, "Morti Hydro" (18PSE8182), 80m; 7 Dec 66, GB, RH. Epiphytic bromeliad in forest; 4m above ground. *Cx. (Mcx.) gaudeator*, *Cx. (Mcx.) jenningsi* group, *Or. phyllozoa*, *Wy. (Hys.)* sp A, *Wy. (Hys.)* sp undetermined, *Wy. (Wyo.) pertinans* group sp Q, *Wy. (Wyo.) pertinans* group sp undetermined.
986. Darien, about 4km NE of Morti, "Morti Hydro" (18PSE8182), 80m; 7 Dec 66, GB, RH. Epiphytic bromeliad in forest; 5m above ground. *An. (Ker.) neivai*, *Cx. (Mcx.) gaudeator*, *Or. phyllozoa*, *Wy. (Hys.)* sp A, *Wy. (Hys.)* sp undetermined, *Wy. (Wyo.) pertinans* group sp P, *Wy. (Wyo.) pertinans* group sp undetermined, *Wy. (Wyo.) ?simmsi*.
987. Darien, about 4km NE of Morti, "Morti Hydro" (18PSE8182), 80m; 7 Dec 66, GB, RH. Epiphytic bromeliad in forest; 6m above ground. *Or. phyllozoa*, *Wy. (Hys.)* sp undetermined, *Wy. (Wyo.) pertinans* group.
988. Darien, about 4km NE of Morti, "Morti Hydro" (18PSE8182), 80m; 7 Dec 66, GB, RH. Small treehole in forest; 2m above ground. *Hg. (Hag.) lucifer*.
989. Darien, about 4km NE of Morti, "Morti Hydro" (18PSE8182), 80m; 7 Dec 66, GB, RH. Treehole in forest; 1m above ground. *Ae. (Pro.) alboapicus*, *Cx. (And.) ?browni*.
990. Darien, about 4km NE of Morti, "Morti Hydro" (18PSE8182), 80m; 7 Dec 66, GB. Leaf axils of "Pinuela" (?terrestrial bromeliad or ?agave). *An. (Ker.) neivai*, *Or. phyllozoa*, *Tx. (Lyn.) superbus*, *Wy. (Hys.)* sp undetermined, *Wy. (?Prs.)* sp 50.
991. Darien, about 4km NE of Morti, "Morti Hydro" (18PSE8182), 80m; 7 Dec 66, GB. Small treehole; 1.5m above ground. *Co. appendiculata*, *Hg. (Hag.) lucifer*.

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992. Darien, about 30km N of La Palma, near Santa Fe, 20m; 9 Dec 66, GB. Treehole in forest; 5m above ground. *Ae. (Pro.) thornstoni*.
993. Darien, about 30km N of La Palma, near Santa Fe, 20m; 9 Dec 66, GB. *Heliconia* leaf axils in forest. *Tr. (subg. A) ulopus*.
994. Darien, about 30km N of La Palma, near Santa Fe, 10m; 9 Dec 66, GB. Animal tracks in grazing area; water clear. *Cx. (Cux.) coronator* group, *Ur. (Ura.) lowii*.
995. Darien, about 30km N of La Palma, near Santa Fe, 10m; 9 Dec 66, GB. Swampy area in grazing area. *An. (Ano.) neomaculipalpus*, *Cx. (Cux.) coronator* group, *Cx. (Mel.) pilosus*, *Cx. (Mel.)* sp undetermined, *Lz. ?sp 3*, *Ps. (Gra.) cingulata* group.
996. Darien, about 30km N of La Palma, near Santa Fe, 20m; 10 Dec 66, GB, AM. Leaf axils of terrestrial plant (?banana) in forest. *Tr. (subg. A) ulopus*.
997. Darien, about 30km N of La Palma, near Santa Fe, 20m; 10 Dec 66, GB, AM. Treehole in forest; 2m above ground; deep shade. *Cx. (And.) conservator*, *Or. fascipes*.
998. Panama, Chame, Nueva Gorgona (17PPV2445), near sea level; 13 Dec 66, GB. Large crabhole; full sun. *De. pseudes*.
999. Panama, Chame, Nueva Gorgona (17PPV2445), near sea level; 13 Dec 66, GB. Saltmarsh. *Ae. (Och.) taeniorhynchus*, *De. pseudes*.
1000. Panama, Chame, Nueva Gorgona (17PPV2445), near sea level; 13 Dec 66, GB. Saltmarsh. *Ae. (Och.) taeniorhynchus*, *An.* sp undetermined.
1001. Panama, Chame, Nueva Gorgona (17PPV2445), near sea level; 13 Dec 66, GB. Large crabhole. *Ae. (Och.) taeniorhynchus*, *De. pseudes*.
1002. Panama, Chame, Nueva Gorgona (17PPV2445), near sea level; 13 Dec 66, GB. Leaf axils of terrestrial plant (?bromeliad) in garden. *Wy. (Wyo.) pertinans* group.
1003. Panama, Chame, about 2km NW of Nueva Gorgona (17PPV2246), 30m; 13 Dec 66, GB. Large treehole; 0.5m above ground. *Ae. (Pro.) podographicus*, *Hg. (Hag.) argyromeris*.
1004. Bocas del Toro, Punta de Pena, Tres de Noviembre trail, 300-500m; 1-5 Nov 65, PO. Adult collection. *Ae. (How.) allotecnion*, *Ae. (How.) septemstriatus*.
1005. Colon, about 10km NE of Puerto Pilon, Maria Chiquita (17PPA3743), near sea level; 6 Sept 67, AA. Large crabhole; water clear, brackish; partial shade. No larvae.
1006. Colon, about 10km NE of Puerto Pilon, Maria Chiquita (17PPA3743), near sea level; 6 Sept 67, AA. Adult resting in large crabhole (same as 1005); 1000-1100hrs. *De. panamensis*.
1007. Colon, about 10km NE of Puerto Pilon, Maria Chiquita (17PPA3743), near sea level; 6 Sept 67, AA. Large crabhole; water clear, brackish; partial shade. No larvae.
1008. Colon, about 10km NE of Puerto Pilon, Maria Chiquita (17PPA3743), near sea level; 6 Sept 67, AA. Adults resting in large crabhole (same as 1007); 1000-1100hrs. *Cx. (Tin.) latisquama*, *De. panamensis*.
1009. Colon, about 10km NE of Puerto Pilon, Maria Chiquita (17PPA3743), near sea level; 6 Sept 67, AA. Large crabhole; water clear, brackish; partial shade. No larvae.
1010. Colon, about 10km NE of Puerto Pilon, Maria Chiquita (17PPA3743), near sea level; 6 Sept 67, AA. Adults resting in large crabhole; 1300hrs. *Cx. (Mel.)* sp undetermined.
1011. Colon, Rainbow City, Corredor de Colon (road through Canal Zone to Colon) (17PPA2232), near sea level; 6 Sept 67, AA. Large crabhole in mangroves; water turbid, brackish; full sun. No larvae.
1012. Colon, Rainbow City, Corredor de Colon (road through Canal Zone to Colon) (17PPA2232), near sea level; 6 Sept 67, AA. Large crabhole in mangroves; water turbid, brackish; full sun. *De. melanophylum*.
1013. Colon, Rainbow City, Corredor de Colon (road through Canal Zone to Colon) (17PPA2232), near sea level; 6 Sept 67, AA. Adults resting in large crabhole (same as 1012) in mangroves; 1300-1400 hrs; full sun. *De. melanophylum*, *De. panamensis*.
1014. Colon, Rainbow City, Corredor de Colon (road through Canal Zone to Colon) (17PPA2232), near sea level; 6 Sept 67, AA. Large crabhole in mangroves; water turbid, brackish; full sun. *De. melanophylum*.

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1015. Colon, Rainbow City, Corredor de Colon (road through Canal Zone to Colon) (17PPA2232), near sea level; 6 Sept 67, AA. Large crabhole in mangroves; water turbid, brackish; full sun. *De. melanophylum*.

1016. Colon, Rainbow City, Corredor de Colon (road through Canal Zone to Colon) (17PPA2232), near sea level; 6 Sept 67, AA. Large crabhole in mangroves; water turbid, brackish; full sun. *Cx. (Cux.) inflictus* group, *De. melanophylum*, *De. panamensis*.

1017. Panama, Panama City, near Juan Diaz, near sea level; 7 Sept 67, AA. Large crabhole along road; water clear, brackish; partial shade. No larvae.

1018. Panama, Panama City, near Juan Diaz, near sea level; 7 Sept 67, AA. Adults resting in large crabhole along road; 1400-1500hrs. *Cx. (Mel.)* sp undetermined, *De. pseudes*.

1019. Panama, Panama City, near Juan Diaz, near sea level; 7 Sept 67, AA. Large crabhole along road; water clear, brackish; partial shade. *Cx. (Cux.) inflictus* group, *De. pseudes*.

1020. Panama, Panama City, near Juan Diaz, near sea level; 7 Sept 67, AA. Adults resting in large crabhole along road; 1300-1400hrs. *De. pseudes*.

1021. Panama, Panama City, near Juan Diaz, near sea level; 7 Sept 67, AA. Large crabhole along road; water clear, brackish; partial shade. *De. pseudes*.

1022. Panama, Panama City, near Juan Diaz, near sea level; 7 Sept 67, AA. Adults resting in large crabhole along road; 1300-1400hrs. *De. pseudes*.

1023. Panama, Panama City, near Juan Diaz, near sea level; 7 Sept 67, AA. Large crabhole along road; water clear, brackish; partial shade. *De. pseudes*.

1024, 1024A. Canal Zone, about 6km NW of Gatun, about 150m from Fort Sherman road on road to Mojinga Swamp (17PPA1430), 5m; 7 Feb 68, MB. Blocked stream in forest; water semipermanent, clear, fresh, with slow current; no vegetation; bottom with mud, sand, dead leaves; partial shade. *An. (Ano.) apicimacula*, *An. (Ano.) eiseni*, *An. (Ano.) punctimacula*, *An. (Nys.)* sp undetermined, *Ch. bathana*, *Cx. (Mel.)* sp undetermined, *Dx.* sp undetermined, *Ur. (Ura.) lowii*.

1025. Canal Zone, about 6km NW of Gatun, about 150m from Fort Sherman road on road to Mojinga Swamp (17PPA1430), 5m; 8 Mar 68, MB, PC. Blocked stream margins in forest; water semipermanent, clear, fresh, with slow current; no vegetation; bottom with mud, sand, dead leaves; partial shade. *An. (Ano.) apicimacula*, *An. (Ano.) eiseni*, *Ch. bathana*.

1026. Canal Zone, about 6km NW of Gatun, near Mojinga Swamp (17PPA1430), 30m; 8 Mar 68, MB, PC. Terrestrial bromeliads (wild pineapple) near stream in forest; partial shade. *Wy. (Hys.)* sp undetermined.

1027. Canal Zone, about 6km NW of Gatun, near Mojinga Swamp (17PPA1430), 20m; 8 Mar 68, MB, PC. Streamside rockhole in forest; water clear, stagnant, fresh; no vegetation; bottom with leaves, dead insects; partial shade. *An. (Ano.) eiseni*, *Cx. (Cux.) coronator* group, *Cx. (Cux.) declarator* group, *Cx. (Mel.)* sp undetermined, *Ur. (Ura.) lowii*.

1028. Not used.

1029. Colon, Corredor de Colon; GML. Colony. *De. melanophylum*.

1030. Panama, Panama City, Punta Paitilla; GML. *De. dyari*.

1031. Bocas del Toro, Almirante; GML. Colony. *De. epitedeus*.

1032. Colon, Colon; GML. Colony. *De. melanophylum*.

1033. Bocas del Toro, Almirante; GML. Colony. *De. cancer*.

1034. Panama, Panama City, Juan Diaz; 10 May 67, GML. *De. spanius*.

1035. Darien, Santa Fe; 22 Jun 67, GML. *De. spanius*.

1036. Panama, Panama City, Juan Diaz; 22 Jun 67, GML. *De. spanius*.

1037. Panama, Chame, Nueva Gorgona; 2 Aug 67, GML. *De. spanius*.

1038. Darien, Santa Fe; 15 Aug 67, GML. *De. spanius*.

1039. Panama, Chame, Nueva Gorgona; 11 Sept 67, GML. *De. spanius*.

1040. Darien, Santa Fe; 29 Jun 69, GML. *De. spanius*.

1041. Panama, Panama City, Juan Diaz; 22 May 67, GML. *De. spanius*.

1042. Panama, Chame, Nueva Gorgona; 18 Jun 67, GML. *De. spanius*.

1043. Darien, Santa Fe; 1 Aug 67, GML. *De. spanius*.

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1044. Cocle, Aguadulce; GML. *De. spanius*.
1045. Panama, Archipiélago de las Perlas, Isla Contadora; GML. *De. pseudes*.
1046. Panama, Archipiélago de las Perlas, Isla Contadora; GML. *De. pseudes*.
1047. Panama, Archipiélago de las Perlas, Isla Contadora; GML. *De. pseudes*.
1048. Colon, Portobelo; 28 Jan 70, PC, IL. Epiphytic bromeliads (25) along road near swamp; up to 2m above ground; partial shade. *Cx. (Mcx.) imitator* group, *Lz. sp 2*, *Wy. (Hys.)* sp undetermined.
1049. Colon, Portobelo; 12 Feb 70, PC, IL. Epiphytic bromeliads (13) along road near swamp; up to 2m above ground; partial shade. *Cx. (Mcx.) imitator* group, *Cx. (Mcx.) jenningsi* group, *Lz. sp 2*, *Wy. (Hys.)* sp undetermined.
1050. Not used.
1051. Chiriqui, Cerro Punta, Bajo Grande, 2.4km E of Cerro Punta on trail to Boquete (17PLV297 9), 2100m; 13, 14 Sept 71, DS, KS. Large treehole in fallen tree in cleared forest; 1m above ground; water clear; volume about 8 l; no vegetation; bottom with plant debris; full sun. *Ae. (Pro.) ?homoeopus*, *Cx. (Cux.) laticlasper*, *Cx. (Cux.) pinarocampa*.
1052. Chiriqui, Cerro Punta, Bajo Grande, 2.7km E of Cerro Punta on trail to Boquete (17PLV297 9), 2100m; 13, 14 Sept 71, DS, KS. Medium treeholes (3) in fallen tree in partially cut forest; water clear; moss, ferns along edges; bottom with plant debris; deep shade. *Ae. (Pro.) homoeopus*, *An. (Ano.) arboricolus*, *Cx. (Cux.) pinarocampa*.
1053. Chiriqui, Cerro Punta, Bajo Grande, 2.7km E of Cerro Punta on trail to Boquete (17PLV297 9), 2100m; 13 Sept 71, DS. Adult biting man in partially cut forest; 1700hrs; deep shade. *Ae. (How.) allotecnon*.
1054. Chiriqui, Cerro Punta, Bajo Grande, 2.4km E of Cerro Punta on trail to Boquete (17PLV297 9), 2100m; 13-14 Sept 71, DS. CDC light trap at edge of clearing in forest; 2m above ground; 1900-0730 hrs. *Cs. (Cus.) ?dugesi*.
1055. Chiriqui, Cerro Punta, 4km E of Cerro Punta and 1.5km E of Bajo Grande on trail to Boquete (17PLV297 8), 2150m; 14 Sept 71, DS, KS. Stream margins in small clearing in forest; water permanent, clear, with moderate current; a little grassy vegetation; bottom with sand, gravel; partial-full sun. *Dx. sp 3*.
1056. Chiriqui, Cerro Punta, Bajo Grande, 2.4km E of Cerro Punta on trail to Boquete (17PLV297 9), 2100m; 14 Sept 71, DS. Large treehole in fallen tree in cleared forest; at ground level; water clear, amber; a little algae; bottom with plant debris; full sun. *Cs. (Cus.) ?dugesi*.
1057. Darien, about 60km E of Jaque, Alturas de Nique, "upper ridge of Nique range, ridge to W of camp," 1200m; 6 Apr 62, GML. Fallen palm spathe in cloud forest. *Cx. (Car.) metempsytus*.
1058. Not used.
1059. Darien, about 60km E of Jaque, Alturas de Nique, "eastern slopes of Nique range, edge of heliport," 600m; 24 Apr 62, PG. Fallen palm spathe in tropical rain forest. *Cx. (Car.) bihaicolus*, *Cx. (Car.) secundus*.
1060. Not used.
1061. Canal Zone, Summit, Madden Forest Preserve, Las Cruces Trail (17PPA5206), 130m; 24 Jun 72, HA. Small treehole in forest; water turbid; deep shade. *Hg. (Hag.) equinus*.
1062. Canal Zone, Summit, Madden Forest Preserve, Las Cruces Trail (17PPA5206), 130m; 24 Jun 72, HA. Small treehole in forest; water turbid; deep shade. *An. (Ano.) eiseni*.
1063. Panama, Pacora, Natl. Rt. 1 at Rio Pacora (17PPA893064), 15m; 27 Jun 72, HA. Margin of swampy area at edge of river in grazing area; water semipermanent, turbid, stagnant, fresh; a little scum; bottom with mud; full sun. *An. (Nys.) albimanus*, *Cx. (Mel.) educator*, *Cx. (Mel.)* sp undetermined, *Ur. (Ura.) lowii*.
1064. Panama, Chepo, 13.7km W of, on Natl. Rt. 1 (17PPA9710), 10m; 26 Jun 72, HA. Pond in clearing; water permanent, clear, stagnant, fresh; abundant algae, grassy, herbaceous vegetation; partial shade. *An. (Nys.) ?albimanus*.
1065. Panama, Chepo, 12.1km W of, on Natl. Rt. 1 (17PPA9811), 10m; 27 Jun 72, HA. Pond in grazing area; water permanent, turbid, stagnant, fresh; a little algae, grassy vegetation; full sun. *Cx. (Mel.) dunni*, *Cx. (Mel.) erraticus*, *Cx. (Mel.)* sp undetermined.

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1066. Panama, Tocumen, 1.5km S of Tocumen Airport (17PPA7702), 10m; 27 Jun 72, HA. Pond in grazing area; water semipermanent, clear; abundant grassy vegetation. *An. (Nys.) triannulatus*, *Cx. (Mel.) dunni*, *Cx. (Mel.)* sp near *mistura*, *Cx. (Mel.)* sp undetermined.
1067. Canal Zone, Balboa, Howard Field (17PPV5486), 10m; 27 Jun 72, HA. Swamp margin in clearing; water clear, stagnant; partial shade. *Cx. (Mel.) chrysonotum*, *Cx. (Mel.) conspirator*, *Cx. (Mel.) dunni*, *Cx. (Mel.) educator*, *Cx. (Mel.) pilosus*.
1068. Canal Zone, about 6km NW of Gatun, Mojinga Swamp (17PPA1329), 10m; 28 Jun 72, HA. Streamside rockhole in forest; water semipermanent, clear, fresh; no vegetation; deep shade. *An. (Ano.) eiseni*, *Cx. (Mel.)* sp undetermined. Adult biting man in forest; 1100hrs; deep shade. *Ae. (Och.) fulvus*.
1069. Canal Zone, about 6km NW of Gatun, Mojinga Swamp (17PPA1329), 10m; 28 Jun 72, HA. Stream margin in forest; water permanent, clear, fresh, with slow current; abundant grassy vegetation; bottom with mud; partial shade. *An. (Ano.) apicimacula*.
1070. Canal Zone, about 6km NW of Gatun, Mojinga Swamp (17PPA1329), 10m; 28 Jun 72, HA. Stream margin in forest; water permanent, clear, fresh, with slow current; abundant grassy vegetation; bottom with mud; partial shade. *Ch. bathana*.
1071. Colon, about 5km NE of Palmas Bellas, 1.5km SW of Pina (17PPA0324), near sea level; 28 Jun 72, HA. Pond along road near sea in forest; water permanent, clear, stagnant, fresh; a little algae, grassy vegetation; bottom with mud; partial shade. *An. (Ano.) punctimacula*, *Ur. (Ura.) geometrica*.
1072. Canal Zone, Balboa, Fort Kobbe (17PPV555840), 10m; 29 Jun 72, HA. Large ground pool in clearing; water semipermanent, turbid, stagnant, fresh; bottom with mud; partial shade. *An. (Ano.) punctimacula*, *Cx. (Mel.) conspirator*.
1073. Chiriqui, Boquete (17PLV424708), 1070m; 1 Jul 72, HA, MB. Epiphytic bromeliad in domestic area; 5m above ground; partial shade. *Ae. (How.) allotecnon*, *Cx. (Mca.) erethy zonfer*, *Or. phyllozoa*, *Wy. (Wyo.) abebela*, *Wy. (Wyo.) pertinans* group ?sp N, *Wy. (Wyo.) pertinans* group sp undetermined.
1074. Chiriqui, Boquete (17PLV424708), 1070m; 1 Jul 72, HA, MB. Small treehole in domestic area; 1.5m above ground; water clear; flottage; partial shade. *An. (Ano.) eiseni*.
1075. Chiriqui, Cerro Punta, "Florida Audubon Society cabin" (17PLV245783), 1720m; 2 Jul 72, HA, ET. Small ground pool in clearing in forest; water permanent, clear, fresh, with slow current; abundant grassy vegetation; full sun. *An. (Ano.) eiseni*, *Cx. (Mel.)* sp undetermined, *Cs. (Cus.) ?dugesii*, *Dx.* sp undetermined.
1076. Chiriqui, Cerro Punta, "Florida Audubon Society cabin" (17PLV245783), 1720m; 2 Jul 72, HA, ET. Animal tracks; water semipermanent, turbid, stagnant, fresh; no vegetation; bottom with mud. *Cx. (Cux.)* sp undetermined, *Cx. (Mel.) ?garcesi*, *Cs. (Cus.) ?dugesii*.
1077. Chiriqui, Cerro Punta, "Florida Audubon Society cabin" (17PLV245783), 1720m; 2 Jul 72, HA, ET. Stream margin; water permanent, clear, fresh, with moderate current; no vegetation; bottom with gravel. *Meringodixa* sp undetermined.
1078. Chiriqui, Cerro Punta, near "Florida Audubon Society cabin" (17PLV2478), 1760m; 2 Jul 72, HA. Epiphytic bromeliad in forest. *Ae. (How.)* sp near *spinosus*, *Cx. (Mca.) erethy zonfer*.
1079. Chiriqui, El Hato del Volcan, Nueva California, "Dos Rios Hotel" (17PLV1871), 1380m; 2 Jul 72, HA, MB. Small ground pool in domestic area; water semipermanent, clear, with slow current; algae, grassy vegetation; full sun. *Cx. (Cux.)* sp undetermined.
1080. Chiriqui, El Hato del Volcan, Nueva California, "Dos Rios Hotel" (17PLV1871), 1380m; 2 Jul 72, HA, MB. Artificial container (gallon can) in domestic area; water clear, foul; no vegetation. *An. (Ano.) eiseni*.
1081. Chiriqui, El Hato del Volcan, Nueva California, "Dos Rios Hotel" (17PLV1871), 1380m; 2 Jul 72, HA, MB. Artificial container (gallon can) in domestic area; water clear, foul; no vegetation. *Cx. (Cux.) quinquefasciatus*.
1082. Chiriqui, 1.5km NW of El Hato del Volcan, Nueva California (17PLV1871), 1380m; 2 Jul 72, ET. Marshy depression in domestic area; water semipermanent, clear, stagnant; grassy vegetation. *Cx. (Cux.) quinquefasciatus*, *Cx. (Cux.)* sp 86.



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1083. Chiriqui, about 5km NW of El Hato del Volcan (17PLV1575), 1400m; 2 Jul 72, ET. Small ground pool; water clear, with slow current; algae. *An. (Ano.) eiseni*, *Cx. (Mel.)* sp undetermined, *Dx.* sp undetermined.
1084. Chiriqui, about 1km NW of El Hato del Volcan, school at Nueva California (17PLV184712), 1380m; 2 Jul 72, ET. Artificial container (barrel) in domestic area; deep shade. *Cx. (Cux.) pinarocampa*.
1085. Chiriqui, about 5km NE of El Hato del Volcan (17PLV2174), 1550m; 2 Jul 72, HA, MB. Discarded coconut shell along road; water clear, foul. *Cx. (Cux.) ?pinarocampa*.
1086. Chiriqui, about 2km E of Cerro Punta on trail to Boquete (17PLV300784), 2200m; 3 Jul 72, HA, ET. Small ground pool in large grassy clearing in forest; water semipermanent, clear, stagnant; a little grassy vegetation; bottom with mud. *Cx. (Cux.) thriambus*, *Cx. (Cux.)* spp undetermined, *Cx. (Ncx.)* sp 13, *Cs. (Cus.) ?dugesii*.
1087. Chiriqui, about 3.5km E of Cerro Punta on trail to Boquete, Paso de Respingo (17PLV315778), 2450m; 3 Jul 72, HA, ET. Small ground pool in clearing in forest; water semipermanent, clear, stagnant; abundant grassy vegetation; bottom with mud; full sun. *Cs. (Cus.) ?dugesii*.
1088. Chiriqui, about 2km E of Cerro Punta on trail to Boquete (17PLV297785), 2150m; 3 Jul 72, HA, ET. Depression in fallen tree in clearing in forest; water clear; no vegetation. *Ae. (Pro.) terrens* group, *Cx. (Cux.) pinarocampa*.
1089. Chiriqui, about 2km E of Cerro Punta on trail to Boquete (17PLV297785), 2150m; 3 Jul 72, HA, ET. Small ground pool in forest; water semipermanent, clear, stagnant; abundant grassy vegetation. No specimens.
1090. Chiriqui, Cerro Punta, near "Florida Audubon Society cabin" (17PLV2478), 1800m; 3 Jul 72, HA, MB. Epiphytic bromeliad in forest; 3m above ground. *Cx. (Mca.) erethyzonfer*.
1091. Chiriqui, Cerro Punta, near "Florida Audubon Society cabin" (17PLV2478), 1850m; 3 Jul 72, HA, MB. Epiphytic bromeliad in forest; 4m above ground; deep shade. *Ae. (How.) alloteconon*, *Ae. (How.) ?sp near spinosus*, *Cx. (Mca.) erethyzonfer*.
1092. Chiriqui, Cerro Punta, near "Florida Audubon Society cabin" (17PLV2478), 1850m; 3 Jul 72, HA, MB. Epiphytic bromeliad in forest; 4m above ground; deep shade. *Ae. (How.) alloteconon*.
1093. Chiriqui, Cerro Punta, "Florida Audubon Society cabin" (17PLV245783), 1720m; 3 Jul 72, HA, MB. Artificial container (tin can) in domestic area; water clear; no vegetation; full sun. *Cx. (Cux.) pinarocampa*.
1094. Canal Zone, about 1km S of Gamboa, "Empire Road" on W side of canal (17PPA438060), 30m; 8 Jul 72, HA. Small ground pool along road at edge of forest; water semipermanent, clear, stagnant, fresh; a little algae, woody vegetation; bottom with mud; partial shade. *Cx. (Cux.) coronator* group, *Cx. (Cux.)* sp undetermined, *Cx. (Mel.) conspirator*, *Cx. (Mel.)* sp undetermined.
1095. Canal Zone, Summit, Madden Forest Preserve, about 0.5km NW of "Green Park" along stream (17PPA516052), 90m; 10 Jul 72, HA. Hole in *Heliconia* stump in clearing in forest; water turbid, foul; partial shade. *Wy. (Jnc.) clasoleuca*, *Wy. (Tri.) aporonoma*.
1096. Canal Zone, Summit, Madden Forest Preserve, about 0.5km NW of "Green Park" along stream (17PPA516052), 90m; 10 Jul 72, HA. Small treehole in forest; 2m above ground; water brown, foul. *Hg. (Hag.) equinus*, *Hg. (Hag.) lucifer*.
1097. Canal Zone, Summit, Madden Forest Preserve, about 0.5km NW of "Green Park" along stream (17PPA516052), 90m; 10 Jul 72, HA. Fallen leaf (*Anacardium*) in forest; water clear. *Li. asulleptus*.
1098. Canal Zone, Summit, Madden Forest Preserve, Las Cruces Trail (17PPA5206), 130m; 10 Jul 72, HA. Small treehole in root in forest; water clear; partial shade. *Hg. (Hag.) lucifer*, *Wy. (Tri.)* sp undetermined.
1099. Canal Zone, Summit, Madden Forest Preserve, Las Cruces Trail (17PPA5206), 130m; 10 Jul 72, HA. Fallen leaf (*Anacardium*) in forest; water clear. *Li. asulleptus*.
1100. Canal Zone, Gamboa, 6.5km NW of, on Pipeline Road, "Limbo Hunt Club" (17PPA3812), 50m; 12 Jul 72, HA, MK. Small treehole in forest; water turbid; deep shade. *Ae. (Pro.) galindoi*, *An. (Ano.) eiseni*, *Co. appendiculata*, *Cx. (Mel.) arboricolus*.

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1101. Canal Zone, Gamboa, 6.5km NW of, on Pipeline Road, "Limbo Hunt Club" (17PPA3812), 50m; 12 Jul 72, HA, MK. Fallen palm leaf in forest; water clear; deep shade. *An. (Ano.) eiseni*, *Cx. (Car.) secundus*, *Li. asulleptus*, *Li. durhamii*.
1102. Canal Zone, Gamboa, 6.5km NW of, on Pipeline Road, "Limbo Hunt Club" (17PPA3812), 50m; 12 Jul 72, HA, MK. Fallen palm spathe in forest; water clear; deep shade. *An. (Ano.) eiseni*, *Tr. (Trc.) digitatum*.
1103. Canal Zone, Gamboa, 6.5km NW of, on Pipeline Road, "Limbo Hunt Club" (17PPA3812), 50m; 12 Jul 72, HA, MK. Terrestrial bromeliad in forest; deep shade. *Wy. (Wyo.) pertinans* group sp Q, *Wy. (Wyo.) pertinans* group sp undetermined.
1104. Canal Zone, Gamboa, about 6km NW of, on Pipeline Road, 0.5km S of "Limbo Hunt Club" (17PPA3812), 50m; 12 Jul 72, HA, MK. Marantaceae flower bracts (*Calathea*) along road at edge of forest; full sun. *Wy. (Dec.)* sp undetermined.
1105. Canal Zone, Gamboa, about 6km NW of, on Pipeline Road, 0.5km S of "Limbo Hunt Club" (17PPA3812), 50m; 12 Jul 72, HA, MK. Small ground pool along road; water semipermanent, turbid, stagnant, fresh; no vegetation; bottom with mud; full sun. *Cx. (Cux.) coronator* group, *Cx. (Cux.) declarator* group, *Cx. (Mel.) iolambdis*, *Cx. (Mel.)* sp undetermined.
1106. Canal Zone, Balboa, Howard Field (17PPV5486?), 10m; 7 Jul 72. Large ground pools in clearing; water permanent, clear, stagnant, fresh; abundant grassy vegetation; full sun. *Cx. (Mel.) erraticus*, *Cx. (Mel.)* sp undetermined.
1107. Canal Zone, about 6km NW of Gatun, Mojinga Swamp (17PPA1329), 10m; 13 Jul 72, HA. Small ground pool at base of tree among roots in forest; water temporary, clear, fresh; no vegetation; bottom with mud; deep shade. *Ps. (Pso.) cilipes*.
1108. Canal Zone, about 6km NW of Gatun, Mojinga Swamp (17PPA1329), 10m; 13 Jul 72, HA. Large ground pool in forest; water temporary, clear, stagnant, fresh; no vegetation; bottom with mud; deep shade. *Ae. (Och.) serratus* group.
1109. Canal Zone, about 6km NW of Gatun, Mojinga Swamp (17PPA1329), 10m; 13 Jul 72, HA. Large shallow treehole in broken branch in forest; water clear; partial shade. *Tx. (Lyn.)* sp undetermined.
1110. Canal Zone, about 6km NW of Gatun, Mojinga Swamp (17PPA1329), 10m; 13 Jul 72, HA. Small ground pool in forest; water temporary, clear, stagnant, fresh; no vegetation; bottom with mud; deep shade. *Ae. (Och.) serratus* group, *An. (Ano.) punctimacula*. Adult biting man in forest; 1100hrs; deep shade. *Ae. (Och.) serratus* group.
1111. Canal Zone, about 6km NW of Gatun, Mojinga Swamp (17PPA1329), 10m; 13 Jul 72, HA. Large ground pool in forest; water permanent, clear, stagnant, fresh; no vegetation; bottom with mud; deep shade. *Ae. (Och.) serratus* group, *An. (Ano.) punctimacula*, *Cx. (Mel.)* sp undetermined.
1112. Canal Zone, about 6km NW of Gatun, Mojinga Swamp (17PPA1329), 10m; 13 Jul 72, HA. Small ground pool in forest; water semipermanent, clear, stagnant, fresh; no vegetation; bottom with mud; partial shade. *Ae. (Och.) nubilus*.
1113. Canal Zone, about 6km NW of Gatun, Mojinga Swamp (17PPA1329), 10m; 13 Jul 72, HA. Small treehole in root in forest; water clear; partial shade. *Ae. (Och.) serratus* group.
1114. Canal Zone, about 6km NW of Gatun, Mojinga Swamp (17PPA1329), 10m; 13 Jul 72, HA. Small ground pool in forest; water semipermanent, clear, stagnant, fresh; no vegetation; bottom with mud; deep shade. *Ae. (Och.) nubilus*, *Cx. (Mel.)* sp undetermined, *Ps. (Jan.)* sp undetermined.
1115. Canal Zone, about 6km NW of Gatun, Mojinga Swamp (17PPA1329), 10m; 13 Jul 72, HA. Small crabhole in forest; water fresh, turbid; partial shade. *Cx. (Cux.) inflictus* group, *De.* sp undetermined.
1116. Canal Zone, about 6km NW of Gatun, Mojinga Swamp (17PPA1329), 10m; 13 Jul 72, HA. Small ground pool in forest; water temporary, clear, stagnant, fresh; no vegetation; bottom with mud; partial shade. *An. (Ano.) punctimacula*.
1117. Not used.
1118. Canal Zone, about 6km NW of Gatun, Mojinga Swamp (17PPA1329), 10m; 13 Jul 72, HA. Small ground pool in forest; water temporary, turbid, stagnant, fresh; no vegetation; bottom with mud; partial shade. *Ps. (Jan.)* sp undetermined.

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1119. Canal Zone, about 6km NW of Gatun, Mojinga Swamp (17PPA1329), 10m; 13 Jul 72, HA. Terrestrial bromeliad in forest; deep shade. *Wy. (Hys.)* sp undetermined.
1120. Colon, Portobelo, Rt. R25, 10m; 7 Jul 72, MB. Epiphytic bromeliads. *Cx. (Mcx.) daumastocampa*, *Cx. (Mcx.) gaudeator*, *Cx. (Mcx.) jenningsi* group, *Lz.* sp undetermined, *Or. phyllozoa*, *Wy. (Hys.)* sp undetermined.
1121. Canal Zone, Gamboa, 7.5km NW of, on Pipeline Road, "Tropic Test Tower" (17PPA372125), 50m; 15 Jul 72, HA. Adults biting-landing and flying in forest canopy; 13m above ground; 1200-1330hrs. *Hg. (Hag.) equinus*.
1122. Canal Zone, Buenos Aires, Rio Chagres about 2km N of Juan Mina (17PPA4816), 25m; 18 Jul 72, HA, RH. Lake side channel in forest; water permanent, clear, stagnant, fresh; abundant floating, submerged (*Elodea*) vegetation; full sun. *Ad. (Ady.) squamipennis*, *An. (Nys.) albimanus*, *An. (Nys.) triannulatus*, *Cx. (Mel.)* sp undetermined, *Ur. (Ura.) apicalis*.
1123. Canal Zone, Buenos Aires, Rio Chagres about 2.5km N of Juan Mina (17PPA4816), 25m; 18 Jul 72, HA, RH. Lake main channel; water permanent, clear, stagnant, fresh; abundant submerged (*Elodea*), floating vegetation; full sun. *Ad. (Ady.) squamipennis*, *An. (Nys.) albimanus*.
1124. Canal Zone, Buenos Aires, Rio Chagres about 2.5km N of Juan Mina (17PPA4816), 25m; 18 Jul 72, HA, RH. Lake in forest; water permanent, clear, stagnant, fresh; abundant floating (*Pistia*), submerged (*Elodea*) vegetation; full sun. *Ad. (Ady.) squamipennis*, *An. (Nys.) triannulatus*, *Cx. (Mel.)* sp undetermined.
1125. Canal Zone, Buenos Aires, Rio Chagres about 3km N of Juan Mina (17PPA4816), 25m; 18 Jul 72, HA, RH. Lake at mouth of creek in forest; water permanent, clear, stagnant, fresh; abundant floating (*Pistia*), submerged (*Elodea*) vegetation; full sun. *Ad. (Ady.) squamipennis*, *An. (Nys.) albimanus*, *An. (Nys.) triannulatus*, *Cx. (Mel.) erraticus*.
1126. Canal Zone, Chilibre, Rio Chagres about 0.5km S of Juan Mina (17PPA4712), 25m; 18 Jul 72, HA, RH. Lake margin in forest; water permanent, stagnant, fresh; abundant flotage, tree roots; bottom with mud; deep shade. *Cx. (Mel.) epanastasis*, *Cx. (Mel.) spissipes*, *Cx. (Mel.) taeniopus* group, *Cx. (Mel.)* sp near *zeteki*, *Cx. (Mel.)* sp 40, *Cx. (Mel.)* spp undetermined. Adults biting-landing, resting near edge of lake; 1500hrs; deep shade. *Cq. (Rhy.) nigricans*, *Cx. (Mel.) spissipes*, *Wy.* sp undetermined.
1127. Canal Zone, Chilibre, near Rio Chagres about 2km S of Juan Mina (17PPA455116), 25m; 19 Jul 72, HA, RH. Stream pool in forest near lake; water semipermanent, clear, fresh, with slow current; no vegetation; bottom with sand; partial shade. *Cx. (Mel.) conspirator*, *Cx. (Mel.) elevator*.
1128. Canal Zone, Chilibre, near Rio Chagres about 2km S of Juan Mina (17PPA455116), 25m; 19 Jul 72, HA, RH. Swamp margin near stream; water permanent, clear, stagnant, fresh; abundant grassy vegetation; bottom with mud; partial shade. *Cx. (Mel.)* spp undetermined.
1129. Canal Zone, Gamboa, about 4km NE of, about 1km W of Rio Chagres (17PPA448117), 130 m; 19 Jul 72, HA, RH. Stream margin in forest; water permanent, clear, fresh, with moderate current; no vegetation; bottom with mud; partial shade. *Cx. (Mel.)* sp undetermined.
1130. Canal Zone, Chilibre, near Rio Chagres, about 2km S of Juan Mina (17PPA455116), 25m; 19 Jul 72, HA, RH. Small treehole in forest; water clear; deep shade. *Ae. (Pro.) galindoi*, *Hg. (Hag.) lucifer*.
1131. Canal Zone, Chilibre, near Rio Chagres, about 2km S of Juan Mina (17PPA455116), 25m; 19 Jul 72, HA, RH. Small treehole in forest; water clear; partial shade. *Ae. (Pro.) thorntoni*.
1132. Canal Zone, Buenos Aires, Rio Chagres at mouth of Rio Gatuncillo (17PPA484178), 25m; 19 Jul 72, HA, RH. *Heliconia* flower bracts in forest near stream and lake; partial shade. *Wy. (Dec.) pseudopecten* group, *Wy. (Dec.)* sp undetermined.
1133. Canal Zone, Buenos Aires, Rio Chagres at mouth of Rio Gatuncillo (17PPA484178), 25m; 19 Jul 72, HA, RH. Bamboo (uncut internodes) in forest; water turbid. *Wy. (Mia.) codiocampa*.
1134. Canal Zone, Buenos Aires, Rio Chagres at mouth of Rio Gatuncillo (17PPA484178), 25m; 19 Jul 72, HA, RH. Bamboo (cut or broken internodes) near stream and lake; water turbid. *Sa. (Sbn.) undosus*, *Wy. (Pen.) arthrostigma*, *Wy. (Tri.) aporonomia*.
1135. Canal Zone, Buenos Aires, Santa Rosa (17PPA4715), 30m; 19 Jul 72, HA, RH. Aroid leaf axils (*Montrichardia*) in domestic area; full sun. *Tr. (subg. A) ulopus*, *Wy. (Cal.) melanocephala*, *Wy. (Prs.) ypsipola*.

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1136. Canal Zone, Buenos Aires, Rio Chagres near mouth of Rio Gatuncillo (17PPA484178), 25m; 19 Jul 72, HA, RH. Stream margin in forest; water permanent, clear, fresh, with slow current; abundant herbaceous, floating (water lilies), submerged (*Elodea*) vegetation. *Ad. (Ady.) squamipennis*, *An. (Nys.) triannulatus*, *Cx. (Mel.) erraticus*, *Cx. (Mel.) ?ocossa*, *Cx. (Mel.)* sp undetermined.
1137. Canal Zone, Buenos Aires, Rio Chagres at Rt. C20 just below Madden Dam (17PPA509175), 30m; 20 Jul 72, HA, RH. Large ground pool along road near river; water permanent, clear, stagnant, fresh; abundant algae; bottom with gravel; full sun. *An. (Nys.) albimanus*, *Cx. (Mel.) chrysonotum*, *Cx. (Mel.) dunni*, *Cx. (Mel.) erraticus*, *Cx. (Mel.) iolambdis*.
1138. Canal Zone, Chilibre, Juan Mina (17PPA477135), 25m; 20 Jul 72, HA, RH. Bamboo (cut or broken internodes) in grazing area; water turbid, foul; partial shade. *Hg. (Hag.) lucifer*, *Li. durhamii*, *Tr. (Trc.) digitatum*, *Wy. (Pen.) arthrostigma*, *Wy. (Tri.) aporonoma*.
1139. Canal Zone, Chilibre, Rio Chagres about 0.5km S of Juan Mina (17PPA4712), 25m; 20 Jul 72, HA, RH. Lake margin in forest; water permanent, clear, fresh, with slow current; abundant herbaceous, floating (*Pistia*) vegetation; full sun. *Ad. (Ady.) squamipennis*, *Cx. (Mel.) ocossa*, *Ma. (Man.) dyari*, *Ur. (Ura.) apicalis*.
1140. Panama, Tocumen, about 1km S of Tocumen Airport (17PPA7902), 10m; 22 Jul 72, HA, RH. Pond in grazing area; abundant flotage, algae and floating (*Lemna*) vegetation; bottom with mud. *Cx. (Mel.) erraticus*.
1141. Panama, Tocumen, about 1km S of Tocumen Airport (17PPA7902), 10m; 22 Jul 72, HA, RH. Animal tracks in grazing area; water semipermanent, clear, stagnant, fresh; no vegetation; bottom with mud; full sun. *Ur. (Ura.) geometrica*.
1142. Panama, Tocumen, about 2km S of Tocumen Airport (17PPA7802), 10m; 22 Jul 72, HA, RH. Animal tracks along road in grazing area; water semipermanent, turbid, stagnant, fresh; no vegetation. *Cx. (Cux.) coronator* group, *Ps. (Gra.) cingulata* group.
1143. Panama, Tocumen, about 2.5km S of Tocumen Airport (17PPA7801), 10m; 22 Jul 72, HA, RH. Small ground pool along road in grazing area; water semipermanent, turbid, stagnant, fresh; no vegetation; full sun. *Cx. (Cux.) coronator* group.
1144. Panama, Tocumen, about 3km S of Tocumen Airport (17PPA7900), 10m; 22 Jul 72, HA, RH. Pond in grazing area; water permanent, clear, fresh, with slow current; abundant floating (*Salvinia*) vegetation; bottom with mud; full sun. *Ad. (Ady.) squamipennis*, *An. (Nys.) triannulatus*, *Cx. (Mel.) erraticus*, *Cx. (Mel.) ocossa*, *Ur. (Ura.) apicalis*.
1145. Panama, Tocumen, about 1km S of Tocumen Airport (17PPA7802), 10m; 22 Jul 72, HA, RH. Animal tracks in grazing area; water semipermanent, turbid, stagnant, fresh; no vegetation; bottom with mud; full sun. *An. (Ano.) neomaculipalpus*, *An. (Nys.) triannulatus*, *Cx. (Cux.) coronator* group, *Cx. (Mel.) bastagarius*, *Cx. (Mel.) dunni*, *Ur. (Ura.) pulcherrima*.
1146. Canal Zone, Gamboa, 6.5km NW of, on Pipeline Road, "Limbo Hunt Club" (17PPA3812), 50m; 26 Jul 72, HA. Small ground pool along road in forest; water semipermanent, turbid, stagnant, fresh; no vegetation; bottom with mud; full sun. *Cx. (Cux.) coronator* group, *Cx. (Cux.)* sp undetermined, *Lz. sp 3*, *Ps. (Jan.)* sp undetermined.
1147. Panama, Tocumen, about 1km S of Tocumen Airport (17PPA7902), 10m; 27 Jul 72, HA. Animal tracks in grazing area; water semipermanent, clear, stagnant, fresh; no vegetation; bottom with mud. *Ae. (Och.) angustivittatus*, *An. (Ano.) ?neomaculipalpus*, *An. (Nys.) albimanus*, *Cx. (Cux.) coronator* group, *Cx. (Cux.)* sp undetermined, *Cx. (Mel.) erraticus*, *Cx. (Mel.) iolambdis*, *Cx. (Mel.) ?pilosus*, *Cx. (Mel.)* sp undetermined, *Ps. (Gra.) cingulata* group.
1148. Panama, Tocumen, about 3km S of Tocumen Airport (17PPA7900), 10m; 27 Jul 72, HA. Pond in grazing area; water permanent, clear, fresh, with slow current; abundant floating (*Salvinia*) vegetation; bottom with mud; full sun. *Ad. (Ady.) squamipennis*, *An. (Nys.) triannulatus*, *Corethrellini* Genus B ?sp 8, *Cx. (Mel.) erraticus*, *Cx. (Mel.) ocossa*, *Ma. (Man.) dyari*, *Ma. (Man.) leberi*, *Ur. (Ura.) apicalis*.
1149. Canal Zone, about 6km NW of Gatun, Mojinga Swamp (17PPA1329), 10m; 29 Jul 72, HA. Large crabhole in bank of stream in forest; water clear, fresh; bottom with mud; deep shade. *An. (Ano.) ?eiseni*, *Cx. (Cux.) inflictus* group, *Cx. (Tin.) latisquama*, *De. panamensis*.

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1150. Canal Zone, about 6km NW of Gatun, Mojinga Swamp (17PPA1329), 10m; 29 Jul 72, HA. Small crabhole in forest; water turbid, fresh; bottom with mud; deep shade. *Cx. (Cux.) inflictus* group, *Cx. (Mel.)* sp undetermined.
1151. Canal Zone, about 6km NW of Gatun, Mojinga Swamp (17PPA1329), 10m; 29 Jul 72, HA. Stream pool in forest; water semipermanent, clear, stagnant, fresh; no vegetation; bottom with mud; deep shade. *An. (Ano.) apicimacula*, *Cx. (Mel.) conspirator*.
1152. Canal Zone, about 6km NW of Gatun, Mojinga Swamp (17PPA1329), 10m; 29 Jul 72, HA. Stream margin in forest; water semipermanent, clear, stagnant, fresh; no vegetation; bottom with rocks; deep shade. *An. (Ano.) eiseni*, *Cx. (Mel.) elevator*.
1153. Canal Zone, about 6km NW of Gatun, Mojinga Swamp (17PPA1329), 10m; 29 Jul 72, HA. Treehole (8 X 5 X 5cm, in tree buttress) in forest; water turbid; deep shade. *Cx. (Cux.) mollis*, *Hg. (Hag.) lucifer*.
1154. Colon, Palmas Bellas, 1km S of Pina (17PPA0324), near sea level; 29 Jul 72, HA. Large ground pool near sea; water permanent, clear, stagnant, fresh; abundant algae, floating vegetation; bottom with mud; partial shade. *Cx. (Mel.) conspirator*, *Cx. (Mel.) dunni*, *Cx. (Mel.) pilosus*, *Lz. sp 3*, *Ur. (Ura.) lowii*, *Ur. (Ura.) ?socialis*.
1155. Canal Zone, about 6km NW of Gatun, Mojinga Swamp (17PPA1329), 10m; 1 Aug 72, MB. Horse trap in forest; 0800hrs. *An. (Lph.) squamifemur*.
1156. Canal Zone, about 6km NW of Gatun, Mojinga Swamp (17PPA1329), 10m; 1 Aug 72, MB. Stream margin in forest; water permanent, clear, fresh, with slow current; abundant grassy vegetation; bottom with mud; deep shade. *An. (Ano.) eiseni*, *Ch. bathana*.
1157. Canal Zone, Coco Solo, along road to, France Field (17PPA2333), near sea level; 2 Aug 72, HA, MB. Artificial container (tin can) in mangroves; water clear, fresh; partial shade. *Hg. (Hag.) lucifer*.
1158. Canal Zone, Escobal, Gatun Lake (17PPA1411), 25m; 2 Aug 72, HA, MB, LJ, JM. Lake margins in forest; abundant algae, submerged (*Elodea*) vegetation; full sun. *An. (Nys.) albimanus*, *Cx. (Mel.) erraticus*.
1159. Canal Zone, 1km N of Escobal, Gatun Lake (17PPA1412), 25m; 2 Aug 72, HA, MB, LJ, JM. Lake margins in forest; abundant algae, submerged (*Elodea*) vegetation; full sun. *An. (Nys.) albimanus*, *Cx. (Mel.) erraticus*.
1160. Canal Zone, Chilibre, Rio Chagres about 1km S of Juan Mina (17PPA4712), 25m; 4 Aug 72, HA, MK. Lake margins in forest; water permanent, clear, fresh, with slow current; abundant algae, herbaceous, floating (*Pistia*, *Eichhornia*) and submerged (*Elodea*) vegetation; full sun. *Ad. (Ady.) squamipennis*, *An. (Nys.) albimanus*, *An. (Nys.) triannulatus*, Corethrellini Genus A sp 36, Corethrellini Genus B sp 23, *Cx. (Mel.) ocosa*, *Ma. (Man.) dyari*, *Ur. (Ura.) apicalis*.
1161. Canal Zone, Buenos Aires, Rio Chagres, about 3km N of Juan Mina (17PPA4816), 25m; 4 Aug 72, HA, MK. Lake margins in forest; water permanent, clear, fresh, with slow current; abundant algae, herbaceous, floating (*Pistia*, *Eichhornia*) and submerged (*Elodea*) vegetation; full sun. *An. (Nys.) triannulatus*, *Cx. (Mel.) educator*, *Cx. (Mel.) erraticus*, *Ur. (Ura.) apicalis*.
1162. Panama, Tocumen, about 1km S of Tocumen Airport (17PPA7702), 10m; 5 Aug 72, HA. Pond in grazing area; water permanent, clear, stagnant, fresh; abundant algae, grassy, herbaceous vegetation; bottom with mud; full sun. *An. (Nys.) triannulatus*, *Cx. (Mel.) erraticus*, *Cx. (Mel.)* sp undetermined, *Lz. ?sp 1*.
1163. Panama, Pedregal, about 3km W of Tocumen Airport, about 2.5km SE of Natl. Rt. 1 (17PPA7500), 10m; 5 Aug 72, HA. Pond in grazing area; water permanent, clear, stagnant, fresh; abundant algae, grassy, herbaceous, floating vegetation; bottom with mud; full sun. *An. (Nys.) triannulatus*, *Cx. (Mel.) dunni*, *Ur. (Ura.) pulcherrima*.
1164. Canal Zone, Escobal, Gatun Lake (17PPA1411), 25m; 2 Aug 72, HA, MB, LJ, JM. Lake margins; water permanent, clear, stagnant, fresh; abundant algae, herbaceous and floating (*Elodea*) vegetation; full sun. *Cx. (Mel.) erraticus*.
1165. Canal Zone, about 6km NW of Gatun, Mojinga Swamp (17PPA1329), 10m; 8 Aug 72, MB. Reared from female collected in horse trap. *An. (Nys.) aquasalis*.
1166. Canal Zone, Gamboa, 7.5km NW of, on Pipeline Road, "Tropic Test Tower" (17PPA372125), 50m; 12 Aug 72, HA. Bamboo trap in forest; 20m above ground; partial shade. No specimens.

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1167. Canal Zone, Gamboa, 7.5km NW of, on Pipeline Road, "Tropic Test Tower" (17PPA37212 5), 50m; 12 Aug 72, HA. Artificial container (cup) in forest; at ground level; partial shade. *Li. asullep-tus*, *Li. durhamii*.
1168. Canal Zone, Gamboa, 6.5km NW of, on Pipeline Road, "Limbo Hunt Club" (17PPA3812), 50m; 12 Aug 72, HA. Bamboo trap in forest; 25m above ground; partial shade. *Or. fascipes*, *Tr. (Trc.) digitatum*.
1169. Canal Zone, Gamboa, 6.5km NW of, on Pipeline Road, "Limbo Hunt Club" (17PPA3812), 50m; 12 Aug 72, HA. Bamboo trap in forest; 2m above ground. *Tr. (Trc.) digitatum*.
1170. Canal Zone, Fort Kobbe, "Kobbe Beach" (17PPV5683), near sea level; 12 Aug 72, HA. Small treehole in mangrove in mangrove swamp; 1.5m above ground; water turbid, foul; partial shade. *Hg. (Hag.) chalcospilans*, *Tx. (Lyn.) moctezuma*.
1171. Canal Zone, Fort Kobbe, "Kobbe Beach" (17PPV5683), near sea level; 12 Aug 72, HA. Small treehole in mangrove in mangrove swamp; 1m above ground; water turbid, foul; partial shade. *Hg. (Hag.) chalcospilans*.
1172. Canal Zone, Fort Kobbe, "Kobbe Beach" (17PPV5683), near sea level; 12 Aug 72, HA. Small treehole in mangrove in mangrove swamp; 1.5m above ground; water turbid, foul; partial shade. *Sa. (Sab.) cyaneus*.
1173. Canal Zone, Fort Kobbe, "Kobbe Beach" (17PPV5683), near sea level; 12 Aug 72, HA. Small treehole in mangrove in mangrove swamp; 1m above ground; water turbid, foul; partial shade. *Hg. (Hag.) chalcospilans*.
1174. Canal Zone, Fort Kobbe, "Kobbe Beach" (17PPV5683), near sea level; 12 Aug 72, HA. Small treehole in mangrove in mangrove swamp; 1.5m above ground; water turbid, foul; partial shade. *Hg. (Hag.) chalcospilans*.
1175. Canal Zone, about 6km NW of Gatun, Mojinga Swamp (17PPA1329), 10m; 8-9 Aug 72, HA, MB. Army horse trap in forest; overnight-0800hrs. *An. (Ano.) punctimacula*, *An. (Nys.) oswaldoi*.
- 1175-P1. Progeny rearing attempted from 1175; eggs laid but did not hatch. *An. (Ano.) punctima-cula*.
1176. Canal Zone, about 6km NW of Gatun, Mojinga Swamp (17PPA1329), near sea level; 8-10 Aug 72, HA, MB. Army horse trap in forest; to 0800hrs. *An. (Ano.) punctimacula*, *An. (Nys.) oswaldoi*.
- 1176-P1. Progeny rearing from 1176. *An. (Nys.) oswaldoi*.
- 1176-P2. Progeny rearing attempted from 1176; eggs did not hatch. *An. (Nys.) oswaldoi*.
- 1176-P3. Progeny rearing from 1176. *An. (Nys.) oswaldoi*.
- 1176-P4. Progeny rearing from 1176. *An. (Nys.) oswaldoi*.
- 1176-P5. Progeny rearing from 1176. *An. (Nys.) oswaldoi*.
- 1176-P6. Progeny rearing from 1176. *An. (Nys.) oswaldoi*.
- 1176-P7. Progeny rearing attempted from 1176; eggs did not hatch. *An. (Nys.) oswaldoi*.
- 1176-P8. Progeny rearing from 1176. *An. (Nys.) oswaldoi*.
- 1176-P9. Progeny rearing attempted from 1176; eggs did not hatch. *An. (Nys.) oswaldoi*.
- 1177-P1. Progeny rearing attempted from 1176; eggs did not hatch. *An. (Nys.) oswaldoi*.
- 1177-P2. Progeny rearing attempted from 1176; eggs did not hatch. *An. (Nys.) oswaldoi*.
- 1177-P3. Progeny rearing attempted from 1176; eggs did not hatch. *An. (Nys.) oswaldoi*.
- 1177-P4. Progeny rearing from 1176. *An. (Nys.) oswaldoi*.
- 1177-P5. Progeny rearing from 1176. *An. (Nys.) oswaldoi*.
- 1177-P6. Progeny rearing from 1176. *An. (Nys.) oswaldoi*.
- 1177-P7. Progeny rearing attempted from 1176; eggs did not hatch. *An. (Nys.) oswaldoi*.
- 1177-P8. Progeny rearing from 1176. *An. (Nys.) oswaldoi*.
1178. Original collection site in Panama not specified. CDC colony at Atlanta, Georgia; originally from colony at Gorgas Memorial Laboratory. *An. (Nys.) albimanus*.
1179. Not used.
1180. Canal Zone, about 6km NW of Gatun, Mojinga Swamp (17PPA1329), 10m; 15 Sept 72, MB. *An. (Lph.) squamifemur*.
1181. Canal Zone, about 6km NW of Gatun, Mojinga Swamp (17PPA1329), 10m; 18 Sept 72, MB. *An. (Lph.) squamifemur*.

## PA Collection Records

1182. Canal Zone, about 6km NW of Gatun, Mojinga Swamp (17PPA1329), 10m; 20 Sept 72, MB.  
*An. (Lph.) squamifemur*.
1183. Canal Zone, about 6km NW of Gatun, Mojinga Swamp (17PPA1329), 10m; 25 Sept 72, MB.  
*An. (Lph.) squamifemur*.
1184. Canal Zone, about 6km NW of Gatun, Mojinga Swamp (17PPA1329), 10m; 16 Oct 72, MB.  
*An. (Lph.) squamifemur*.
1185. Canal Zone, about 6km NW of Gatun, Mojinga Swamp (17PPA1329), 10m; 18 Oct 72, MB.  
*An. (Lph.) squamifemur*.

## PA Locality Index

For convenience, the Canal Zone is listed alphabetically along with the Republic of Panama's provinces. Locality names which we cannot find on our maps and which we cannot confirm as to location or spelling are put in quotation marks. Elevations are only approximate (may be in error by 100m or more) for following collections: PA 1-734, 928-1004.

It should be noted that because the boundary of the Canal Zone follows at a varying distance the margins of Rio Chagres, Madden Lake and some of their tributaries, it was often impossible to determine whether a particular collection was made in the Canal Zone or the Republic of Panama. This true of the following localities: Juan Mina, Pequeni, Rio Chilibre and Santa Rosa. In such cases we have assigned the collection to whatever political division seems most likely; thus, for example, the locality "Juan Mina" appears under both "Canal Zone" and "Panama."

## BOCAS DEL TORO

- Almirante* (17PLA4627), 5m, and vicinity. Various localities in and near town, near sea level-20m.—260, 261, 263, 264, 265, 266, 267, 268, 271, 272, 273, 274, 275, 282, 284, 286, 287, 289, 290, 293, 295, 298, 306, 307, 310, 315, 316, 317, 320, 321, 334, 341, 344, 664, 665, 666, 667, 668, 669, 670, 671.
- Bastimentos* (17PLA6733), Isla Bastimentos, about 3km E of Bocas del Toro, 10m.—658, 659, 660, 661.
- Big Creek* (17PLA6335), Isla Colon, about 2km N of Bocas del Toro, 10m.—651, 652, 653, 654, 655, 656, 657.
- "*Bocas-Chiriqui trail*" (trail cut about 25 yrs ago between Boquete and Almirante). Along trail about 15km SW of Almirante, 250m.—301, 302, 303, 304, 308, 324, 326, 327, 328, 329, 338.
- Buena Vista* (17PLV6876), about 4km S of Catalina on Tres de Noviembre trail, 300m.—188.
- "*Chiriquicito*." See Punta de Pena.
- El Guabo* (17PLV6981), about 3km S of Punta de Pena on Tres de Noviembre trail, 60m.—196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 211, 212, 237.
- "*Filon*" (17PLV6775), 11km S of Punta de Pena on Tres de Noviembre trail, 700m.—187.
- "*La Sierra*" (17PLV6271), on Tres de Noviembre trail at continental divide, Cerro Guayabo, ?1800 m.—180, 181.
- "*La Zorra*" (17PLV6372), on Tres de Noviembre trail just N of continental divide, Cerro Guayabo, ?1500m.—171, 172, 173, 174, 175, 176, 177, 178, 179, 182, 183, 184, 185.
- Mata de Cacao* (17PLV7489), 5m.—220, 221, 222, 223, 224, 243, 246.
- Milla 1* (17PLA4527), 5m.—297.
- Milla 2* (17PLA4428), 10m.—254, 255, 259, 262, 269, 278, 288, 294, 305, 309, 318, 322, 323, 330, 331, 337, 339, 340, 342, 343, 345, 662, 663.
- Milla 3* (17PLA4429), 10m.—335, 336.
- Milla 5* (17PLA4332), 10m.—291, 314.
- Milla 6* (17PLA4333), 10m.—292.
- "*Pala de Carano*" (17PLV6776), on Tres de Noviembre trail, 600m.—186.
- Punta de Pena* (17PLV6985), 30m, and vicinity. In or in immediate vicinity of Punta de Pena.—193, 194, 195, 226. "Chiriquicito" (17PLV6985), cattle farm centered at Punta de Pena, 30m.—189,

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190, 191, 192, 219, 225, 232, 233, 234, 235, 236, 245, 247, 248, 249, 250, 251, 252, 253. "Kaysan."—213, 214, 215, 216, 217, 218, 227, 228, 229, 230, 231, 238, 239, 240, 241, 242, 244.

*Quebrada Nigua*, 1-4km W of Almirante, less than 40m.—256, 257, 258, 270, 276, 277, 279, 280, 281, 283, 285, 296, 299, 300, 311, 312, 313, 319, 325, 332, 333.

*Rio Chiriqui Mali*, joins Rio Guabo about 6km S of Punta de Pena, 100m or more.—210.

*Tres de Noviembre trail* (also known as "Caldera" or "Caldera-Chiriquicito" trail, between Caldera in Chiriqui and Punta de Pena=Chiriquicito in Bocas del Toro), various localities on. Between 300 and 500m.—1004. See also Buena Vista, El Guabo, "Filon," "La Sierra," "La Zorra," and "Pala del Carano" (all are on Tres de Noviembre trail).

## CANAL ZONE

*Albrook Field*. W edge of field (17PPV578912), near sea level.—737, 738, 739, 740, 741, 742, 743, 743A, 743B, 743C, 934.

*Barbacoas Island*, about 10km W of Gamboa in Gatun Lake. Tabernilla Point (17PPA319091), 30 m.—901, 902. S shore of island (17PPA3208), 30m.—903, 904.

*Barro Colorado Island* (17PPA2712), about 40km W of Frijoles in Gatun Lake, 25-170m.—851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867.

*Chiva Chiva* (17PPV5698), 30m, and immediately S of.—763A, 763B, 764, 765, 766, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778.

"*Culebra*" (17PPA4700, PV4799), about 3km NW of Paraiso, 70m.—896, 897, 898, 899, 900.

"*Empire Firing Range*" (17PPA469009), across canal from Summit, 70m.—795, 796, 797, 798.

*Escobal* (17PPA1411) and vicinity. Gatun Lake at Escobal (17PPA1411), 25m.—1158, 1164. Gatun Lake 1km N of Escobal (17PPA1412), 25m.—1159.

*Fort Clayton* (17PPV5595) and vicinity. Rio Cardenas, stream along E edge of fort, near sea level.—783, 784, 785. Junction of Rts. C2 and C21 (17PPV542964), 20m.—767. Rt. C21, 0.6km N of Rt. C2 (17PPV542971), 20m.—779. Rio Caimitillo (17PPA5497), 15m.—799, 800.

*Fort Davis* (17PPA1926) and vicinity. Junction of Rts. R2 and R6 (17PPA194268), 10m.—816. Near entrance off Rt. R6 (17PPA198276), 10m.—813, 814, 815. "Aguas Claras Reservoir," 20m.—726.

*Fort Kobbe* (17PPV5584). At Fort Kobbe (17PPV555840), 10m.—1072. "Kobbe Beach" (17PPV 5683), near sea level.—1170, 1171, 1172, 1173, 1174.

*Fort San Lorenzo* (17PPA0930), ruins at mouth of Rio Chagres, 20m.—733.

*Fort Sherman* (17PPA1435), vicinity of. "Sweet Water Reservoir" (17PPA1231), 80m.—731, 732, 734.

*France Field* (17PPA2434) and vicinity. "Residential area," 10m.—808, 809, 810. Along road to Coco Solo (17PPA2333), near sea level.—1157.

*Frijoles* (17PPA3214), about 15km NW of Gamboa on railroad, 30m.—842, 843, 844, 845, 846, 847, 848, 849, 850.

*Gamboa* (17PPA4208), 50m, and vicinity. Pipeline road, from about 6-10km NW of Gamboa (17PPA3614, 3712, 3812), 50-150m.—882, 1100, 1101, 1102, 1103, 1104, 1105, 1121, 1146, 1166, 1167, 1168, 1169. "Empire Road" on W side of canal, about 1km S of Gamboa (17PPA438060), 30m.—1094. About 1km W of Rio Chagres and about 4km NE of Gamboa (17PPA448117), 130m.—1129. Rio Chagres near Gamboa, 30m.—912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923. "San Antonio," Rio Chagres, 30m.—1, 2. Not specified.—841, 912A.

*Gatun* (17PPA1925), 30m, and vicinity.—53, 711, 712.

*Howard Field* (17PPV5486), 10m.—1067, 1106.

*Huile* (17PPV390986), E and N of in Canal Zone. About 4km N of Huile (17PPA3902), 150m.—870, 871, 872, 873, 874, 875, 876. About 3km NE of Huile (17PPA4000), 150m.—869. About 2km NE of Huile (17PPV4099), 150m.—868.

*Juan Mina* (17PPA4813) and vicinity. Near Rio Chagres about 2km S of Juan Mina (17PPA455116), 25m.—1127, 1128, 1130, 1131. Rio Chagres 0.5-1km S of Juan Mina (17PPA4712), 25m.—1126, 1139, 1160. At Juan Mina (17PPA477135), 25m.—1138. Rio Chagres 2-3km N of Juan Mina (17PPA4816), 25m.—1122, 1123, 1124, 1125, 1161.

*Madden Dam* (17PPA5218), just below. Rio Chagres at Rt. C20 (17PPA509175), 30m.—1137.



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*Madden Forest Preserve* (N from Summit to Canal Zone border). Various localities along Rt. C25, or a short distance from road along Las Cruces Trail (17PPA5103, 5105, 5206), less than 200m.—705, 706, 707, 708, 709, 735, 736, 787, 788, 789, 790, 791, 792, 793, 794, 839, 840, 1061, 1062, 1095, 1096, 1097, 1098, 1099.

*Margarita* (17PPA2231), 10m, and vicinity. Rt. R6, 2.1km S of Margarita (17PPA2029), 5m.—811, 812. "Margarita Road."—716, 717, 718, 719. Not specified.—714, 715.

*Miraflores Lake* (17PPV5496), 15m.—762, 763.

*Mojinga Swamp* (17PPA1328), about 6km NW of Gatun, and vicinity. Various localities mostly just to the N of swamp (17PPA1329, 1430), 5-30m.—720, 721, 722, 723, 724, 725, 727, 728, 729, 943, 1024, 1024A, 1025, 1026, 1027, 1068, 1069, 1070, 1107, 1108, 1109, 1110, 1111, 1112, 1113, 1114, 1115, 1116, 1118, 1119, 1149, 1150, 1151, 1152, 1153, 1155, 1156, 1165, 1175, 1176, 1177, 1180, 1181, 1182, 1183, 1184, 1185.

*Nuevo Emperador* (17PPV3995), E of in Canal Zone. About 2km NE of Nuevo Emperador (17PPV410967), 130m.—830, 831. Various localities about 5km E and NE of Nuevo Emperador (17PPV4397, 4496, 4497), 90-140m.—820, 821, 822, 823, 826, 827, 828, 829, 832, 833.

*Paraiso* (17PPV5198), across canal from. Rt. K15 between Rts. K2 and K6 (17PPV4996), 50-180 m.—802, 803, 804.

*Pequeni* (17PPA604340), on Rio Pequeni near mouth at N end of Madden Lake, 90m.—924, 925, 926, 927.

*Rio Chilibre*, 30m.—20, 22, 23, 24, 25, 26, 27, 28, 29.

*Rio Gatuncillo* at confluence with Rio Chagres (17PPA484178), 25m.—1132, 1133, 1134, 1136.

*Rodman Naval Station* (17PPV5688), near sea level, and vicinity.—880, 881, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 906, 907, 908, 909, 910.

*Santa Rosa* (17PPA4715), 30m.—1135.

## CHIRIQUI

*Bambito* (17PLV2276), 1600m.—643.

*Boquete* (17PLV424708), 1070m.—1073, 1074.

*Cerro Punta* (17PLV2778), 1800m, and vicinity. Various points along trail to Boquete from Cerro Punta through Baja Grande to Paso de Respingo (17PLV2879, 2978, 2979, 3078, 3177), 2000-2500m.—647, 1051, 1052, 1053, 1054, 1055, 1056, 1086, 1087, 1088, 1089. "Florida Audubon Society cabin," and vicinity (17PLV2478), 1700-1850m.—1075, 1076, 1077, 1078, 1090, 1091, 1092, 1093. Not specified, 1800-1850m.—640, 641, 642.

*El Hato del Volcan* (17PLV1970), 1380m, and vicinity. Las Lagunas (17PLV1569), 1340m.—636, 638, 639. About 5km NW of Volcan (17PLV1575), 1400m.—1083. "Los Pozos" (17PLV1772?), 1350 m.—645. Nueva California (17PLV1871), 1380m.—644, 1079, 1080, 1081, 1082, 1084. About 5km NE of Volcan (17PLV2174), 1550m.—1085. Not specified.—637.

*Nueva Suiza* (17PLV2478), 1700m.—648.

*Palo Santo* (17PLV1574), 1300m.—646.

## COCLE

*Aguadulce*.—1044.

*El Valle* (17PNV9551), 600m, and vicinity. About 1km W of El Valle, "Pozo de las Mozas," 700m.—504, 505, 650. Not specified.—502, 506, 507, 508, 509, 510, 521, 522, 533.

## COLON

*Buena Vista* (17PPA4325), vicinity of. Natl. Rt. 3, less than 150m.—710.

*Cativa* (17PPA2734), 10m.—805, 806, 807.

*Corredor de Colon* (17PPA2232), road through Canal Zone to Colon, near sea level.—1011, 1012, 1013, 1014, 1015, 1016. Site on road not specified.—713.

*Gatuncillo* (17PPA4822), 50m, vicinity of. Rio Gatuncillo.—911.

*Maria Chiquita* (17PPA3743), about 10km NE of Puerto Pilon, near sea level.—1005, 1006, 1007, 1008, 1009, 1010.

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*Pina* (17PPA0425), near sea level, and vicinity. Not specified.—573, 574, 575, 576, 577, 578. 1-1.5 km S of Pina (17PPA0324), near sea level.—1071, 1154.

*Portobelo* (17PPA4856), near sea level, and vicinity. Rt. R25, 10m.—1120. Cemetery, near sea level.—581, 598. "Isla Caldera," near sea level.—587, 589. "Rio Caldera," near sea level.—591, 592. Rio Cascajal, near sea level.—594, 595. Not specified.—579, 580, 582, 583, 584, 585, 586, 588, 590, 593, 596, 597, 599, 600, 601, 602, 603, 604, 605, 606, 607, 1048, 1049.

*Santa Rosa* (17PPA4715), 40m.—14, 30, 42, 43.

## DARIEN

*Alturas de Nique* (7°41'N, 77°45'W), mountains about 60km E of Jaque. "Upper ridge of Nique range, ridge to W of camp," 1200m.—1057. "Eastern slopes of Nique range, edge of heliport," 600m.—1059.

*Cerro Mali*, mountain about 30km NE of Pucro in Serrania del Darien. Various localities on mountain, 1350-1500m.—346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, ?368A, 369, 370, 371, 372, 373, 374, 376, 377, 378, 379, 380, 381, 382, 383, 407, 411, 928, 929, 930, 931, 932, 933.

*El Real* (8°08'N, 77°43'W), vicinity of. "Boca Yaviza," near sea level.—619. "Pirique," near sea level.—620, 621, 622. "Pirre."—623, 624, 625, 626, 627, 628. "Sumacate," near sea level.—618.

*Jaque* (17NRU1332), near sea level, and vicinity. "Fondeadero," near sea level.—615, 616. Rio Jaque (17NRU1433), near sea level.—612, 613, 614. Not specified.—608, 609, 610, 611, 617.

*Morti* (18PSE791796), vicinity of. "Morti Hydro" (18PSE8182), about 4km NE of Morti, 80-120 m.—948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991. Near "Morti Hydro," 250m.—970.

*Pucro* (8°01'N, 77°30'W), village on Rio Pucro, 100m, and vicinity. "Camino Tapalisa."—629. "La Laguna," 900-1150m.—399, 447, 448, 449, 450, 451, 452, 453, 454. Rio Pucro, headwaters of, 1200m.—375. Rio Pucro.—630, 632. "Quebrada Pobre."—634. "Road to Quebrada Pobre."—633. In or in immediate vicinity of Pucro, 100m.—631, 635.

*Rio Tacarcuna valley* (Rio Tacarcuna is tributary of Rio Pucro), 600m.—384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 400, 401, 402, 403, 404, 405, 406, 408, 409, 410, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 455, 456, 457, 458.

*Santa Fe* (17PRV1356) and vicinity. Various localities in and near Santa Fe, near sea level-20m.—944, 945, 946, 947, 992, 993, 994, 995, 996, 997, 1035, 1038, 1040, 1043.

## PANAMA

*Alcalde Diaz* (17PPA5908), probably in vicinity of. "Chiva Chiva Rd., W of Transisthmian Hy."—782.

*Bejuco* (17PPV2251), 20m, and vicinity. "El Bajo."—501. "Lagarto," near sea level.—499, 500. Lirio (17PPV2150), 25m.—476, 542. Pueblo Nuevo (17PPV2151), 20m.—468, 469, 475. "Puerto Bejuco," near sea level.—528. Not specified.—459, 465, 466, 467, 511, 525, 534, 541, 649.

*Buena Vista* (17PPV1357), about 3km W of Chica, 300m.—512, 513, 514.

*Cerro Azul* (17PPA7413), 600m, and vicinity. "La Zumbadora," 600m.—60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116. Near Cerro Azul, 150m.—55, 56. Not specified.—57, 58, 59.

*Cerro Campana* (17PPV0860), 1020m, slopes of. About 4km N of Chica (17PPV0860), 600-900m.—460, 461, 462, 470, 471, 472, 473, 474, 490, 491, 492, 493, 494, 495, 496, 497, 517, 518, 519, 520, 537, 538, 539, 540, 543, 544, 545. Near Campana (17PPV1163), 150m.—564.

"Cerro Jefe," near Tocumen, 900m.—87.

*Chame* (17PPV2348), vicinity of. Quebrada Piedra (17PPV2146), 20m.—526. Rio Poroporo (17PPV1742), 45m.—530. Rio Lajas (17PPV1943), 30m.—527.

*Chepo* (17PPA0914), vicinity of. Natl. Rt. 1, 13.7km W of Chepo (17PPA9710), 10m.—1064. Natl. Rt. 1, 12.1km W of Chepo (17PPA9811), 10m.—1065.

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- Copécito* (17PPV0641), 200m.—503.  
*El Corozal* (17PPV3052), near sea level.—482, 483, 484, 485, 486.  
*El Harino* (17PPV1744), 50m.—463, 464, 478, 479, 730.  
*El Libano* (17PPV2853), near sea level—30m.—481, 487, 488, 489, 523, 524, 535, 536, 565, 566, 567, 568.  
*Huile* (17PPV390986) and vicinity. In *Huile* (17PPV3998), 100m.—877, 878, 879. 4.8km NW of junction of Rts. K16 and K19 (17PPV389986?), 100m.—835. 5.4km NW of junction of Rts. K16 and K19 (17PPV383990?), 100m.—834.  
*Isla Contadora* (8°38'N, 79°02'W), Archipiélago de las Perlas.—1045, 1046, 1047.  
*Juan Diaz* (17PPA7100), 10m, and vicinity. "Cerro Pelao."—555. Juan Diaz Race Track (17PPV6898), 10m.—838. In Juan Diaz or in immediate vicinity.—569, 571, 572, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 754A, 801, 836, 837, 1017, 1018, 1019, 1020, 1021, 1022, 1023, 1034, 1036, 1041.  
*Juan Mina* (17PPA4813), 40m.—3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 15, 16, 17, 18, 19, 31, 32, 33, 34, 35, 36, ?37, 38, 39, 40, 41, 44, 45, 46, 47, 48, 49, 50, 51, 52.  
*Las Guacas* (17PPA4815), 40m.—13.  
*Nuevo Emperador* (17PPV3995), just E of. Rt. K19, 1.5-1.9km W of Rt. K16 (17PPV4095), 120m.—817, 818, 819, 824, 825.  
*Nueva Gorgona* (17PPV2445), near sea level.—477, 480, 515, 516, 532, 998, 999, 1000, 1001, 1002, 1037, 1039, 1042. About 2km NW of Nueva Gorgona (17PPV2246), 30m.—1003.  
*Pacora* (17PPA8804), vicinity of. About 0.8km S of Natl. Rt. 1 on road to Pacora (17PPA881056), 30m.—760, 761. Natl. Rt. 1 at Rio Pacora (17PPA893064), 15m.—1063.  
*Paitilla* (17PPV6392), 10m.—755, 756, 757, 758, 759, 780, 781, 1030.  
*Panama City*. Panama Viejo (17PPV6696), near sea level.—570. Not specified.—54.  
*Pedregal* (17PPA7302), vicinity of. About 3km W of Tocumen Airport, about 2.5km SE of Natl. Rt. 1 (17PPA7500), 10m.—1163.  
*Pequeni* (17PPA604340), NE of in Republic of Panama. Estacion Hidro el Candelaria on Rio Pequeni (17PPA6237), 100m.—936, 937, 938, 940, 942. "Quebrada Escondida," Rio Pequeni.—939. Rio Pequeni.—941.  
*Rio Camaron* (17PPV1462), small tributary of Rio Capira Salido, about 7km S of Capira, 30m.—498.  
*San Carlos* (17PPV1436), vicinity of. Rio Mata Ahogado (17PPV1436), 15m.—529. Rio Teta (17PPV1541), 30m.—531, 546.  
*Tocumen* (17PPA7805), vicinity of. Various localities mostly to the S and W of Tocumen Airport (17PPA7702, 7801, 7802, 7900, 7902), 5-10m.—547, 548, 549, 550, 551, 552, 553, 554, 556, 557, 558, 559, 560, 561, 562, 563, 1066, 1140, 1141, 1142, 1143, 1144, 1145, 1147, 1148, 1162.

## PA Species Index

- Aedeomyia (Aedeomyia) squamipennis* (Lynch Arribalzaga 1878).—12, 13, 27, 31, 278, 557, 559, 1122, 1123, 1124, 1125, 1136, 1139, 1144, 1148, 1160.  
*Aedes (Howardina) allotechnon* Kumm, Komp and Ruiz 1940.—176, 179, 180, 183, 462, 533, 638, 1004, 1053, 1073, 1091, 1092.  
*Aedes (Howardina) brevis* Berlin 1969.—171 (holotype), 178, 183, 185.  
*Aedes (Howardina) quadrivittatus* (Coquillett 1902).—174, 175, 537.  
*Aedes (Howardina) septemstriatus* Dyar and Knab 1907.—301, ?667, 1004.  
*Aedes (Howardina) sexlineatus* (Theobald 1901).—504, 533.  
*Aedes (Howardina) spinosus* Berlin 1969.—172, 176, 179, 180, 181, 184, 185.  
*Aedes (Howardina) sp* near *spinosus*.—1078, ?1091.  
*Aedes (Ochlerotatus) angustivittatus* Dyar and Knab 1907.—207, 208, 217, 220, 226, 237, 243, 249, 269, 270, 294, 304, 305, 308, 309, 321, 331, 338, 341, 344, 532, 553, 663, 667, 670, 743C, 813, 834, 1147.  
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*Aedes (Ochlerotatus) fulvus* (Wiedemann 1828).—304, 308, 338, 339, 341, 416, 1068.  
*Aedes (Ochlerotatus) hastatus* Dyar 1922.—270.  
*Aedes (Ochlerotatus) incomptus* Arnell 1976.—379 (holotype).  
*Aedes (Ochlerotatus) nubilus* (Theobald 1903).—270, 304, 321, 834, 1112, 1114.  
*Aedes (Ochlerotatus) oligopistus* Dyar 1918.—250, 304, 308, 321, 331, 344, 663.  
*Aedes (Ochlerotatus) serratus* (Theobald 1901).—250, 270, 304, 308, 321, 338, 341, 344, 553.  
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*Aedes (Ochlerotatus) taeniorhynchus* (Wiedemann 1821).—477, 480, 515, 532, 536, 743C, 999, 1000, 1001.  
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*Aedes (Protomacleaya) alboapicus* Schick 1970.—989.  
*Aedes (Protomacleaya) campana* Schick 1970.—518 (holotype).  
*Aedes (Protomacleaya) daryi* Schick 1970.—349, 367, 381.  
*Aedes (Protomacleaya) galindoi* Schick 1970.—721, 724, 856, 1100, 1130.  
*Aedes (Protomacleaya) homoeopus* Dyar 1922.—?1051, 1052.  
*Aedes (Protomacleaya) insolitus* (Coquillett 1906).—290, 349, 368, 497.  
*Aedes (Protomacleaya) podographicus* Dyar and Knab 1906.—459, 534, 1003.  
*Aedes (Protomacleaya) terreus* group sp undetermined.—331, 537, 610, 764, 1088.  
*Aedes (Protomacleaya) thorntoni* Dyar and Knab 1907.—5, 299, 328, 578, 586, 592, 707, 712, 768, 769, 770, 772, 773, 844, 875, 944, 945, 992, 1131.  
*Aedes (Protomacleaya) zavortinki* Schick 1970.—773, 825, 978.  
*Anopheles (Anopheles) apicimacula* Dyar and Knab 1906.—32, 35, 77, 108, ?238, 309, 322, 330, 338, ?646, 774, 775, 1024, 1024A, 1025, 1069, 1151.  
*Anopheles (Anopheles) arboricolus* Zavortink 1969.—647 (holotype), 1052.  
*Anopheles (Anopheles) eiseni* Coquillett 1902.—4, 5, 7, 45, 58, 62, 64, 65, 75, 270, 354, 369, 374, 380, 389, 393, 394, 401, 415, 426, 429, 446, 449, 460, 505, 537, 543, 573, 630, 645, 646, 651, 668, 705, 706, 725, 727, 728, 775, 788, 789, 793, 859, 860, 1024, 1024A, 1025, 1027, 1062, 1068, 1074, 1075, 1080, 1083, 1100, 1101, 1102, ?1149, 1152, 1156.  
*Anopheles (Anopheles) neomaculipalpus* Curry 1931.—?548, 560, 561, 562, 748, 750, 760, 834, 836, 837, 838, 995, 1145, ?1147.  
*Anopheles (Anopheles) pseudopunctipennis* Theobald 1901.—630, 631, 669.  
*Anopheles (Anopheles) punctimacula* Dyar and Knab 1906.—2, 19, 25, 31, 40, 77, 516, 531, 553, 603, 630, 631, 634, 664, 725, 754, ?780, 841, 912A, 1024, 1024A, 1071, 1072, 1110, 1111, 1116, 1175, 1176.  
*Anopheles (Anopheles)* sp undetermined.—7, 63, 67, 220, 238, 244, 249, 308, 651.  
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- Culex (Carrollia) cerqueirai* Valencia 1973.—654 (holotype).
- Culex (Carrollia) metempsytus* Dyar 1921.—347, 355, 364, 376, 377, 382, 431, 929, 931, 1057.
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- Culex (Culex) corniger* Theobald 1903.—30, 57, 65, 76, 97, 108, 188, 206, 223, 420, 421, 426, 445, 465, 467, 468, 499, 503, 509, 511, 512, 513, 529, 534, 550, 581, 597, 601, 607, 630, 650, 671, 710, 775, 834, 870, 947.
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- Culex (Culex) pinarocampa* Dyar and Knab 1908.—647, 1051, 1052, 1084, ?1085, 1088, 1093.
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- Culex (Melanoconion) bastagarius* Dyar and Knab 1906.—14, 27, 460, 542, 547, 551, 557, 560, 561, 562, 564, ?636, 662, 780, 805, 1145.
- Culex (Melanoconion) chrysonotum* Dyar and Knab 1908.—225, 246, 248, 253, 278, 547, 551, 560, 562, 590, 631, 652, 666, 671, 744, 757, 760, 761, 763A, 763B, 780, 1067, 1137.
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- Culex (Melanoconion) dunni* Dyar 1918.—15, 42, 47, 542, 558, ?560, ?561, 662, 805, 848, 1065, 1066, 1067, 1137, 1145, 1154, 1163.
- Culex (Melanoconion) educator* Dyar and Knab 1906.—2, 542, 562, 631, 664, 669, 750, 753, 754, 761, 799, 805, 848, 1063, 1067, 1161.
- Culex (Melanoconion) egcymon* Dyar 1923.—2, 37, 39, 40, ?542, 820, 848.
- Culex (Melanoconion) elevator* Dyar and Knab 1906.—4, 7, 25, 35, 45, 64, 65, 73, ?75, 93, 108, 389, 393, 401, 423, 429, 470, 490, 492, ?519, 543, ?557, ?561, ?577, 651, 659, ?664, 668, 705, 725, 726, 774, 798, 854, 859, 876, 1127, 1152.
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- Culex (Melanoconion) epanastasis* Dyar 1922.—249, 251, 278, 321, 554, 671, 1126.
- Culex (Melanoconion) erraticus* (Dyar and Knab 1906).—12, 13, 269, 278, 305, 318, 547, 631, 636, 662, 664, 671, 755, 780, 799, 1065, 1106, 1125, 1136, 1137, 1140, 1144, 1147, 1148, 1158, 1159, 1161, 1162, 1164.
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- Culex (Melanoconion) ?garcesi* Duret 1968.—346, 352, 354, 369, 1076.
- Culex (Melanoconion) iolambdis* Dyar 1918.—?393, 423, ?552, ?615, ?630, ?760, ?763A, 801, 803, 820, 823, ?838, ?842, 1105, 1137, 1147.
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*Haemagogus (Haemagogus) chalcospilans* Dyar 1921.—486, 535, 567, 570, 580, 592, 600, 603, 622, 716, 731, 732, 734, 738, 739, 740, 741, 742, 743C, 762, 763, 1170, 1171, 1173, 1174.  
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*Haemagogus (Haemagogus) iridicolor* Dyar 1921.—264, 282, 290, 311, 312, 317, 324, 326, 653.  
*Haemagogus (Haemagogus) janthinomys* Dyar 1921.—406, 444, 457.  
*Haemagogus (Haemagogus) lucifer* (Howard, Dyar and Knab 1913).—5, 94, 205, 234, 245, 254, 257, 259, 277, 300, 342, 500, 502, 503, 507, 522, 537, 539, 540, 578, 581, 600, 601, 710, 714, 716, 721, 724, 727, 767, 768, 771, 777, 792, 807, 814, 824, 825, 856, 857, 860, 861, 898, 904, 924, 951, 988, 991, 1096, 1098, 1130, 1138, 1153, 1157.  
*Haemagogus (Haemagogus)* sp undetermined.—316, 345, 574, 604, 614, 721.  
*Limatus asulleptus* (Theobald 1903).—186, 220, 222, 226, 228, 233, 242, 257, 284, 294, 296, 298, 312, 320, 321, 344, 377, 378, ?402, 419, 422, 426, 431, 450, 518, 537, 601, 663, 720, 721, 859, 902, 939, 940, 951, 953, 961, 1097, 1099, 1101, 1167.  
*Limatus durhamii* Theobald 1901.—71, 189, 242, 255, 284, 286, 296, 298, 312, 320, 431, 439, 467, 499, 518, 601, 720, 747, 778, 824, 825, 826, 840, 856, 924, 939, 951, 952, 953, 961, 975, 1101, 1138, 1167.  
*Lutzomiops* ?sp 1: near *davisi*.—1162.  
*Lutzomiops* sp 2: possibly *pallida*.—1048, 1049.  
*Lutzomiops* sp 3: near *pallida*.—774, 803, 820, 823, 834, 842, ?995, 1146, 1154.  
*Lutzomiops* sp undetermined.—?822, 1120.  
*Mansonia (Mansonia) dyari* Belkin, Heinemann and Page 1970.—557, 559, 1139, 1148, 1160.  
*Mansonia (Mansonia) leberi* Boreham 1970.—662, 1148.  
*Mansonia (Mansonia) titillans* (Walker 1848).—662, 923.  
*Mansonia (Mansonia)* sp undetermined.—12, 31, 44, 46, 48, 248, 269, 270, 278, 288, 321, 322, 330, 331, 337, 338, 341, 343, 663, 671, 754A, 841, 912A.  
*Meringodixa* sp undetermined.—1077.  
*Orthopodomyia ?albicosta* (Lutz 1904).—928.  
*Orthopodomyia fascipes* (Coquillett 1905).—79, 88, 109, 315, 588, 592, 610, 612, 707, 712, 960, 983, 997, 1168.  
*Orthopodomyia phyllozoa* (Dyar and Knab 1907).—3, 28, 29, 33, 49, 52, 209, 212, 215, 220, 226, 229, 246, 258, 276, 279, 297, 304, 325, 337, 386, 414, 430, 435, 461, 462, 473, 496, 545, 579, 599, 613, 629, 657, 665, 708, 709, 711, 719, 811, 815, 937, 955, 962, 963, 964, 965, 966, 974, 980, 984, 985, 986, 987, 990, 1073, 1120.  
*Psorophora (Grabhamia) cingulata* group: *cingulata* or related sp.—208, 220, 226, 244, 249, 251, 252, 270, 304, 305, 309, 310, 321, 322, 330, 331, 337, 338, 340, 341, 343, 344, 403, 419, 427, 439, 443, 455, 469, 476, 520, 530, 561, 744, 745, 748, 750, 801, 836, 837, 995, 1142, 1147.



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- Psorophora (Janthinosoma) albipes* (Theobald 1907).—294, 304, 308, 309, 310, ?321, ?331, ?338, 339, ?341, ?342, 344, 444.
- Psorophora (Janthinosoma) ferox* (Humboldt 1819).—220, 226, 270, 294, 304, 308, 310, 321, 331, 338, 339, 341, 342, 344, 403, 416, 427, 439, 443, 515, 532, 666, 667, 775, 833, 834.
- Psorophora (Janthinosoma) lutzii* (Theobald 1901).—270, 294, 304, 308, 310, ?321, ?331, 338, ?341, 344, 666.
- Psorophora (Janthinosoma) ?melanota* Cerqueira 1943.—553.
- Psorophora (Janthinosoma) ?varipes* (Coquillett 1904).—270, 288, 294.
- Psorophora (Janthinosoma)* sp undetermined.—249, 251, 270, 294, 339, 345, 379, 390, 471, 472, 474, 520, 526, 634, 670, 1114, 1118, 1146.
- Psorophora (Psorophora) cilipes* (Fabricius 1805).—1107.
- Psorophora (Psorophora) lineata* (Humboldt 1819).—341.
- Sabethes (Sabethes) cyaneus* (Fabricius 1805).—46, 247, 250, 259, 301, 315, 339, 790, 1172.
- Sabethes (Sabethes) tarsopus* (Dyar and Knab 1908).—247, 294, 444, 457, 538, 540.
- Sabethes (Sabethinus) undosus* (Coquillett 1906).—1, ?53, 259, 328, 335, 654, 710, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 1134.
- Sabethes (Sabethinus)* sp undetermined.—237, 250.
- Sabethes (Sabethoides) chloropterus* (Humboldt 1819).—250, 252, 342, 406, 444, 456, 457, 458, 538.
- Sayomyia* sp undetermined.—472.
- Toxorhynchites (Lynchiella) hypoptes* (Knab 1907).—234, 860.
- Toxorhynchites (Lynchiella) moctezuma* (Dyar and Knab 1906).—459, 464, 506, 511, 523, 567, 764, 1170.
- Toxorhynchites (Lynchiella) superbus* (Dyar and Knab 1906).—3, 33, 52, ?191, 194, 196, 197, 198, 200, 209, 212, 213, 215, 231, 235, 258, 265, 279, 609, ?613, 658, 665, 711, 809, 810, 963, 964, 990.
- Toxorhynchites (Lynchiella)* sp A: near *hypoptes*.—259.
- Toxorhynchites (Lynchiella)* sp C: near *grandiosus*.—372, 407.
- Toxorhynchites (Lynchiella)* sp undetermined.—461, 486, 501, 534, 588, 657, 731, 897, 937, 1109.
- Trichoprosopon (Ctenogoeldia) magnum* (Theobald 1905).—20, 36, 38, 280, 285, 384, 385, 391, 392, 413, 418, 594, 596, 624, 627, 795, 796, 865, 872, 873.
- Trichoprosopon (Shannoniana)* new sp.—633.
- Trichoprosopon (Shannoniana)* 4 new sp.—928.
- Trichoprosopon (Shannoniana)* sp undetermined.—932.
- Trichoprosopon (Trichoprosopon) digitatum* (Rondani 1848).—107, 109, 187, 222, 223, 257, 287, 298, 356, 397, 399, 425, 428, 434, 440, 446, 447, 453, 616, 713, 715, 733, 931, 940, 1102, 1138, 1168, 1169.
- Trichoprosopon (Trichoprosopon) lampropus* (Howard, Dyar and Knab 1913).—356, 929.
- Trichoprosopon (Trichoprosopon)* new sp.—928.
- Trichoprosopon* (subgenus A) *leucopus* (Dyar and Knab 1906).—220, 247.
- Trichoprosopon* (subgenus A) *ulopus* (Dyar and Knab 1906).—6, 17, 26, 41, 66, 72, 74, 84, 85, 92, 94, 112, 192, 193, 196, 199, 201, 202, 208, 214, 220, 221, 224, 227, 232, 239, 244, 246, 249, 250, 251, 252, 256, 261, 265, 289, 303, 310, 342, 384, 392, 405, 414, 416, 443, 449, 451, 532, 539, 556, 575, 576, 583, 584, 587, 593, 596, 599, 619, 623, 625, 628, 629, 655, 657, 665, 667, 708, 735, 736, 765, 766, 776, 787, 794, 796, 804, 806, 822, 828, 829, 831, 835, 843, 846, 851, 853, 869, 874, 899, 900, 938, 941, 946, 976, 993, 996, 1135.
- Trichoprosopon* sp undetermined.—241, 427.
- Uranotaenia (Uranotaenia) apicalis* Theobald 1903.—12, 13, 27, 557, 559, 1122, 1139, 1144, 1148, 1160, 1161.
- Uranotaenia (Uranotaenia) calosomata* group sp A: larval siphon spiculose, and male genitalia as in Galindo, Blanton and Peyton 1954:127.—9.
- Uranotaenia (Uranotaenia) calosomata* group sp B: larval siphon not spiculose and male genitalia as in Howard, Dyar and Knab 1913:plate 38.—?4, 9, 60, 63, 65, ?75, 83, 96, ?98, ?115.

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- Uranotaenia (Uranotaenia) coatzacoalcos* Dyar and Knab 1906.—65, 111, ?205, ?543, 637.
- Uranotaenia (Uranotaenia) geometrica* Theobald 1901.—11, 82, 248, 253, ?313, 322, 327, 337, 340, 455, 551, 631, 651, 666, 671, 763A, ?780, 1071, 1141.
- Uranotaenia (Uranotaenia) hystera* Dyar and Knab 1913.—663.
- Uranotaenia (Uranotaenia) leucoptera* (Theobald 1907).—27, 37, 553.
- Uranotaenia (Uranotaenia) lowii* Theobald 1901.—15, 44, 47, 269, 340, ?526, 630, 666, 750, 755, 759, 761, 780, 836, 934, 994, 1024, 1024A, 1027, 1063, 1154.
- Uranotaenia (Uranotaenia) nataliae* Lynch Arribalzaga 1891.—42, ?278.
- Uranotaenia (Uranotaenia) pallidoverter* series: *coatzacoalcos*, *calosomata*, *typhlosomata*, *trapidoi* and/or related sp.—220, 226, 237, 244, 304, 308, 310, 321, 322, 331, 338.
- Uranotaenia (Uranotaenia) pulcherrima* Lynch Arribalzaga 1891.—27, 43, 305, ?337, 340, ?343, 636, 662, 1145, 1163.
- Uranotaenia (Uranotaenia) ?socialis* Theobald 1901.—337, 340, 343, 1154.
- Uranotaenia (Uranotaenia) ?trapidoi* Galindo, Blanton and Peyton 1954.—350, 351.
- Uranotaenia (Uranotaenia) typhlosomata* Dyar and Knab 1907.—25.
- Uranotaenia (Uranotaenia)* sp near *typhlosomata*: adult wing and leg scalation, and pupal trumpet distinct.—4, 55, 56, 63, 70, 83, 90, ?93, ?98, 105.
- Uranotaenia (Uranotaenia)* sp undetermined.—2, 10, 61, 102, 218, 269, 307, 337, 527, 542, 561, 634, 662, 669, 774.
- Wyeomyia (Calladimyia) melanocephala* Dyar and Knab 1906.—16, 17, 41, 384, 392, 556, 587, 593, 596, 628, 629, 632, 787, 816, 822, 828, 835, 843, 846, 853, 1135.
- Wyeomyia (?Calladimyia)* sp 77: larva near *surinamensis*, association of pupa and adult female with larva uncertain, male unknown.—932.
- Wyeomyia (Decamyia) eloisa* Howard, Dyar and Knab 1913.—?235, 260, ?386, 414, ?628.
- Wyeomyia (Decamyia) pseudopecten* group: sp near *pseudopecten*.—26, 196, 200, 209, 224, 231, 241, 258, 260, 265, 276, 279, ?297, 334, ?386, ?414, 625, 628, 629, 657, 665, 1132.
- Wyeomyia (Decamyia) rorotai* group: sp near *rorotai*.—391, 627, 795, 864, 882.
- Wyeomyia (Decamyia) ulocoma* group: sp near *ulocoma*.—16, 17, 26, 196, 200, 209, 235, 260, ?265, 334, 625, ?628.
- Wyeomyia (Decamyia)* sp G: affinities uncertain.—872.
- Wyeomyia (Decamyia)* sp undetermined.—204, 220, 625, 627, 629, 655, 657, 665, 795, 864, 882, 1104, 1132.
- Wyeomyia (Dinomyia) proviolans* Dyar 1919.—92, 398, 595, 632, 655, 816, 868, 871, 936, 977.
- Wyeomyia (Hystatomyia)* sp A: possibly *circumcincta*.—579, 599, 937, 955, 964, 965, 966, 969, 974, 980, 981, 982, 984, 985, 986.
- Wyeomyia (Hystatomyia)* sp B: possibly *circumcincta*.—555, 609.
- Wyeomyia (Hystatomyia)* sp C: possibly *circumcincta*.—293.
- Wyeomyia (Hystatomyia)* sp D: possibly *intonca*.—68, 852, 981.
- Wyeomyia (Hystatomyia)* sp E: possibly *coenonus*.—435.
- Wyeomyia (Hystatomyia)* sp G: possibly *intonca*.—197.
- Wyeomyia (Hystatomyia)* sp J: possibly *coenonus*.—68.
- Wyeomyia (Hystatomyia)* sp undetermined.—68, 78, 87, 89, 191, 197, 198, 213, 215, 216, 220, 229, 246, 249, 251, 262, 293, 302, 357, 430, 435, 555, 579, 599, 609, 613, 656, 709, 852, 867, 926, 937, 956, 962, 963, 964, 965, 966, 969, 971, 974, 980, 981, 982, 984, 985, 986, 987, 990, 1026, 1048, 1049, 1119, 1120.
- Wyeomyia (Janicemyia) clasoleuca* Dyar and Knab 1908.—398, 591, 595, 626, 632, 655, 718, 868, 871, 936, 977, 1095.
- Wyeomyia (Miamyia) codiocampa* Dyar and Knab 1907.—922, 1133.
- Wyeomyia (Miamyia)* sp 15: possibly *hosautos*.—633.
- Wyeomyia (Miamyia)* sp 17: possibly *oblita*.—633.
- Wyeomyia (Nunezia)* sp 24: near *bicornis*.—173, 176, 178, 359, 371, 545, 933.
- Wyeomyia (Pentemyia) arthrostigma* (Lutz 1905).—1, 228, 259, 281, 633, 654, 807, 859, 860, 922, 1134, 1138.

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- Wyeomyia (Prosopolepis) complosa* (Dyar 1928).—66, 72, 74, 84, 91, 92, 112, 178, 199, 201, 214, 220, 221, 227, 239, 244, 249, 251, 256, 261, 310, 392, 593, 595, 596, 708, 736, 787, 794, 804, 822, 829, 835, 858, 866, 874, 896, 946, 976.
- Wyeomyia (Prosopolepis) jocosa* (Dyar and Knab 1908).—200, 414, 587, 766, 776, 779, 800, 822, 869, 896, 899, 900.
- Wyeomyia (Prosopolepis) ypsipola* Dyar 1922.—619, 776, 779, 800, 829, 849, 900, 1135.
- Wyeomyia* (?*Prosopolepis*) sp 50: probably *Prosopolepis*, but male and larva not known.—990.
- Wyeomyia (Prosopolepis)* sp undetermined.—6, 92, 804, 874.
- Wyeomyia (Triamyia) aporonoma* Dyar and Knab 1906.—1, 245, 254, 283, 319, 654, 727, 762, 807, 827, 925, 1095, 1134, 1138.
- Wyeomyia (Triamyia)* sp 8: near *aporonoma*.—1, 790, 924.
- Wyeomyia (Triamyia)* sp 73: possibly sp 22.—365.
- Wyeomyia (Triamyia)* sp undetermined.—71, 259, 281, 295, 317, 419, 443, 840, 951, 953, 1098.
- Wyeomyia (Wyeomyia) abebela* Dyar and Knab 1908.—172, 173, 176, 348, 357, 359, 363, 371, 373, 435, 473, 555, 638, 933, 1073.
- Wyeomyia (Wyeomyia) celaenocephala* Dyar and Knab 1906.—3, 28, 29, 33, 49, 52, 563, 709, 711, 719, 811, ?813, 815, 817, 818, 819, 878.
- Wyeomyia (Wyeomyia) melanopus* Dyar 1919.—194, ?212, 230, 302, 329, ?508, ?579, 955, 964, 971.
- Wyeomyia (Wyeomyia) pertinans* group sp B: possibly *ablabe*s, near sp S, T and Y.—302.
- Wyeomyia (Wyeomyia) pertinans* group sp H: near sp E, R and U.—230.
- Wyeomyia (Wyeomyia) pertinans* group sp N: near sp V and W.—359, 638, ?1073.
- Wyeomyia (Wyeomyia) pertinans* group sp P: possibly *abrachys* or *leucopisthepus*, near sp Q.—28, 80, 508, 521, 709, 791, 962, 974, 986.
- Wyeomyia (Wyeomyia) pertinans* group sp Q: possibly *chresta* or *leucopisthepus*, near sp P.—33, 435, 791, 955, 956, 963, 964, 965, 969, 971, 973, 981, 982, 985, 1103.
- Wyeomyia (Wyeomyia) pertinans* group sp R: possibly *scotinomus*, near sp H.—230.
- Wyeomyia (Wyeomyia) pertinans* group sp S: near sp B and T.—368A.
- Wyeomyia (Wyeomyia) pertinans* group sp T: possibly sp B.—956, 962, 969, 970, 971, 972, 973, 974.
- Wyeomyia (Wyeomyia) pertinans* group sp U: near sp H.—963.
- Wyeomyia (Wyeomyia) pertinans* group sp undetermined.—28, 33, 49, 52, 80, 87, 89, 212, 216, 229, 230, 262, 291, 293, 302, 306, 348, 357, 359, 368A, 433, 461, 462, 495, 504, 506, 508, 521, 533, 545, 563, 579, 599, 609, 638, 709, 711, 791, 808, 809, 810, 813, 815, 817, 818, 819, 830, 835, 845, 850, 852, 855, 862, 863, 867, 877, 878, 879, 955, 956, 962, 963, 964, 965, 969, 970, 971, 972, 973, 974, 980, 981, 982, 984, 985, 986, 987, 1002, 1073, 1103.
- Wyeomyia (Wyeomyia) simmsi* (Dyar and Knab 1908).—293, ?302, ?579, 609, ?613, 926, 937, 955, 964, ?974, 980, 982, ?986.
- Wyeomyia (Wyeomyia)* sp 25: distinctive larva, adult unknown, possibly sp 59.—194, 197, 213.
- Wyeomyia (Wyeomyia)* sp 79: near *melanopus*.—357.
- Wyeomyia* (subgenus D) *chalcocephala* Dyar and Knab 1906.—74, 84, 112, 196, 200, 209, 224, 231, 235, 237, 244, 256, 258, 260, 265, 270, 276, 279, 297, 334, 338, 443, 451, 619, 623, 628, 629, 657, 658, 665, 924.
- Wyeomyia* (?subgenus) sp 74: larva known only, affinities uncertain.—177.
- Wyeomyia* (?subgenus) sp 75: larva known only, affinities uncertain.—433.
- Wyeomyia* (?subgenus) sp 76: larva known only, affinities uncertain.—451.
- Wyeomyia* sp undetermined.—46, 207, 208, 219, 220, 226, 237, 244, 246, 247, 249, 250, 251, 252, 270, 294, 304, 308, 310, 321, 322, 331, 339, 341, 342, 343, 344, 345, 350, 353, 361, 402, 403, 406, 416, 419, 439, 443, 444, 457, 458, 535, 537, 538, 539, 540, 614, 663, 666, 667, 671, 813, 970, 1126.

## GG Collection Records

- 1-101-113. Darien, Pucro, Paya, 100m; 25 Feb 58, GML. Rearings. *Hg. (Hag.) lucifer*.  
 1-114. Darien, Pucro, "Paya Camp," 50m; 15 Jul 58, GML. Bamboo. *Tx. (Lyn.) superbus*.  
 1-115. Darien, Pucro, "Paya Camp," 50m; 3 Jul 58, GML. Treehole. *Cx. (And.) conservator*.  
 1-116. Darien, Pucro, Paya, 100m; 25 Feb 58, GML. Rearing. *Hg. (Hag.) lucifer*.  
 1-117. Darien, Pucro, Paya, 100m; 1 Mar 58, GML. Rearing from egg. *Hg. (Con.) clarki*.  
 1-118. Darien, Pucro, "Tacarcuna"; 9 Sept 58, GML. Rearing from egg. *Hg. (Hag.) janthinomys*.  
 1-119. Darien, Pucro, "Paya Camp," 50m; 3 Jul 58, GML. Terrestrial bromeliad. *Wy. (Wyo.) pertinans* group.  
 1-120. Darien, Pucro, Paya, 100m; 1 Mar 58, GML. Rearing from egg. *Hg. (Con.) clarki*.  
 1-121. Darien, Pucro, Paya, 100m; 25 Feb 58, GML. Rearing. *Hg. (Hag.) lucifer*.  
 1-122. Darien, Pucro, Rio Pucro; 19 Mar 58, GML. Bamboo. *Tr. (Shn.)* n. sp.  
 1-123. Darien, Pucro, Paya, 100m; 25 Feb 58, GML. Rearing from egg. *Hg. (Hag.) lucifer*.  
 1-124. Darien, Pucro, Paya, 100m; 1 Mar 58, GML. Rearing from egg. *Hg. (Con.) clarki*.  
 1-125. Darien, Pucro, Rio Pucro, mouth of Rio Tapalisa, 50m; 20 Mar 58, GML. Rearing. *Tx. (Lyn.)* sp A.  
 1-126. Darien, Pucro, Paya, 100m; 1958, GML. Rearing from egg. *An. (Nys.) oswaldoi*.  
 1-127. Darien, Pucro, Rio Tuira, mouth of Rio Paya, 50m; 26 Feb 58, GML. Shaded spring. *An. (Ano.) eiseni*.  
 1-128. Darien, Quebrada Sucia, Rio Chucunaque, mouth of Rio Tuquesa, 10m; 17 Mar 58, GML. Rearing. *Cx. (Mel.)* sp undetermined.  
 1-129. Darien, Pucro, Paya, 100m; 1958, GML. Rearing from egg. *An. (Nys.) oswaldoi*.  
 1-130. Darien, Pucro, "Paya Camp," 50m; 19 Jul 58, GML. Rearings. *Cx. (Cux.) mollis*.  
 1-131. Darien, Pucro, Paya, 100m; 21 Feb 58, GML. Rearing from egg. *Hg. (Hag.) lucifer*.  
 1-132. Darien, Quebrada Sucia, Rio Chucunaque, mouth of Rio Tuquesa, 10m; 17 Feb 58, GML. Rearing. *An. (Ano.) punctimacula*.  
 1-133. Darien, Pucro, Paya, 100m; 1958, GML. Rearing from egg. *An. (Nys.) oswaldoi*.  
 1-134. Darien, Pucro, "Tacarcuna," 700m; 1 Feb 58, GML. Leaf axils of aroid (*Dieffenbachia*). Rearing. *Wy. (Prs.) ?complosa*.  
 1-135. Darien, Quebrada Sucia, Rio Chucunaque, mouth of Rio Tuquesa, 10m; 17 Feb 58, GML. Rearing. *Ur. (Ura.) lowii*.  
 1-136. Darien, Pucro, Rio Pucro; 19 Mar 58, GML. Bamboo. *Wy. (Mia.)* sp 15.  
 1-137. Darien, Pucro, Paya, 100m; 1958, GML. Rearing from egg. *An. (Nys.) oswaldoi*.  
 1-138. Darien, Pucro, Paya, 100m; 1958, GML. Rearing from egg. *An. (Nys.) oswaldoi*.  
 1-139. Darien, Rio Chucunaque; 16 Feb 58, PG. Rearings. *Cx. (Cux.) coronator* group.  
 1-140. Darien, Pucro, Rio Pucro, mouth of Rio Tapalisa, 50m; 19 Mar 58, GML. Bamboo. *Wy. (Mia.)* sp 15.  
 1-141. Darien, Pucro, Paya, 100m; 1958, GML. Rearing from egg. *An. (Nys.) oswaldoi*.  
 1-142. Darien, Quebrada Sucia, Rio Chucunaque, mouth of Rio Tuquesa, 10m; 17 Feb 58, GML. Rearing. *Ur. (Ura.) pallidoventer*.  
 1-143. Darien, Quebrada Sucia, Rio Chucunaque, mouth of Rio Tuquesa, 10m; 17 Feb 58, GML. Rearing. *Ur. (Ura.) lowii*.  
 1-144. Darien, Pucro, "Paya Camp," 50m; 4 Jul 58, PG, AQ. Rearing. *Wy. (Tri.)* sp 8.  
 1-145. Darien, Pucro, Rio Pucro, mouth of Rio Tapalisa, 50m; 19 Mar 58, GML. Bamboo. *Sa. (Sbn.)* sp 3.  
 1-146. Darien, Rio Chucunaque; 16 Feb 58, GML. Adults in buttresses. *Cx. (And.) conservator*, *Cx. (Cux.) chidesteri*, *Cx. (Mel.) spissipes*.  
 1-147. Darien, Jaque, Puerto Pina (17NRU1040), near sea level; 15 Nov 57, GML. Adult at light. *An. (Ano.) apicimacula*.  
 1-148. Darien, Pucro, Rio Tuira, mouth of Rio Paya, 50m; 25 Feb 58, GML. Shannon trap (at light). *Cx. (Cux.)* sp undetermined, *Cx. (Mel.)* sp undetermined, *Ur. (Ura.) lowii*.  
 1-149. Darien, Pucro, upper Rio Pucro; 17 Mar 58, GML. Adult in treetop. *Ps. (Gra.) cingulata* group.

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- 1-150. Darien, Quebrada Sucia, Rio Tuquesa, near Rio Chucunaque, 10m; 15 Feb 58, GML. Adults in buttressed roots. *Cx. (Mel.) spissipes*.
- 1-151. Darien, Pucro, "Paya Camp," 50m; 13 Apr 58, GML. Adults. *Tx. (Lyn.) ?hypoptes*.
- 1-152. Darien, Pucro, "Quebrada Limon," 50m; 8 Mar 58, GML. Adults. *An. (Nys.)* sp undetermined.
- 1-153. Darien, Rio Chucunaque; 18 Feb 58, GML. Adults. *Ae. (Och.) ?serratus* group, *Ae. (Och.) taeniorhynchus*, *Ma. (Man.)* sp undetermined, *Ps. (Jan.)* sp undetermined.
- 1-154. Darien, Pucro, "Tacarcuna"; 23 Sept 58, GML. Adult. *Sa. (Sbo.) chloropterus*.
- 1-155. Darien, Pucro, Rio Tuira, mouth of Rio Paya, 50m; 26 Feb 58, GML. Shannon trap. *An. (Ano.) punctimacula*.
- 1-156. Darien, Quebrada Sucia, Rio Chucunaque, mouth of Rio Tuquesa, 10m; 17 Feb 58, GML. Adults in buttresses. *Cx. (And.) conservator*.
- 1-157. Darien, Pucro, Paya, 100m; 22 Sept 58, GML. Adult. *Tx. (Lyn.) superbus*.
- 1-158. Darien, Pucro, upper Rio Pucro, "Cp. No. 3"; 17 Mar 58, GML. Adults. *Ch. bathana*, *Cx. (Mel.)* sp undetermined.
- 1-159. Darien, Pucro, Rio Tuira, mouth of Rio Paya, 50m; 4 Mar 58, GML. Residual pools. *An. (Ano.) punctimacula*, *An. (Ano.)* sp undetermined, *An. (Nys.) oswaldoi*, *An. (Nys.)* sp undetermined, *Cx. (Cux.)* sp undetermined, *Cx. (Mel.) mutator* group, *Ur. (Ura.) lowii*.
- 1-160. Darien, locality not known; 1958, GML. Adults. *Cx. (Car.) antunesi*, *Li. asulleptus*, *Tr. (Trc.) digitatum*, *Tr. (Trc.)* n. sp near *digitatum*, *Wy.* sp undetermined.
4. Darien, Pucro, Rio Tuira, mouth of Rio Paya, 50m; 23 Feb 58, GML. Adults biting in forest. *Ae. (Och.) ?serratus* group.
6. Darien, Pucro, Rio Tuira, mouth of Rio Paya, 50m; 23 Feb 58, GML. *Heliconia mariae* (probably leaf axils). *Wy. (Jnc.) clasoleuca*.
8. Darien, Pucro, Rio Tuira, mouth of Rio Paya, 50m; 23 Feb 58, GML. Shannon trap. *Ae. (Och.) ?serratus* group, *An. (Ano.) apicimacula*, *An. (Ano.) punctimacula*, *Cx. (Cux.) corniger*, *Cx. (Cux.)* spp undetermined, *Ma. (Man.)* sp undetermined, *Ps. (Pso.) lineata*.
10. Darien, Pucro, upper Rio Pucro, "Camp no. 3"; 16 Mar 58, PG, AQ. Adults. *Cx. (Mel.)* sp undetermined.
11. Darien, Pucro, Rio Pucro; 1958, GML. Streamside rockholes. *An. (Ano.) eiseni*, *Cx. (Cux.) bonnea*, *Cx. (Cux.)* sp undetermined, *Cx. (Lut.) allostigma*, *Cx. (Mel.)* sp undetermined, *Ur. (Ura.) ?trapidoi*.
12. Darien, Pucro, "Paya Camp," 50m; 24 Feb 58, GML. Adults. *Hg. (Hag.) lucifer*.
14. Darien, Pucro, Rio Tuira, mouth of Rio Paya, 50m; 24 Feb 58, GML. Shannon trap. *An. (Ano.) punctimacula*, *Cx. (Cux.)* sp undetermined.
16. Darien, Pucro, Rio Pucro; 19 Mar 58, GML. Bamboo. *Tr. (Shn.)* n. sp, *Wy. (Mia.)* sp 15, *Wy. (Mia.)* sp 17.
17. Darien, Pucro, Rio Pucro, mouth of Rio Tapalisa, 50m; 1958, GML. Bamboo. *Sa. (Sbn.) identicus*, *Tr. (Shn.)* 2 n. spp, *Tr. (Trc.) digitatum*, *Tr. (Trc.)* n. sp near *digitatum*, *Wy. (Mia.)* sp 15, *Wy. (Mia.)* sp 17.
19. Darien, Pucro, upper Rio Pucro; 1958, GML. Adult. *Ur. (Ura.) ?trapidoi*.
22. Darien, Pucro, Rio Tuira; 15 Feb 58, GML. Fallen leaf in forest. *Li. asulleptus*.
24. Darien, Pucro, Rio Tuira, mouth of Rio Paya, 50m; 25 Feb 58, GML. Adult. *Sa. (Sbn.)* sp undetermined.
25. Darien, Pucro, Rio Tuira, mouth of Rio Paya, 50m; 25 Feb 58, GML. Shannon trap. *An. (Ano.) apicimacula*, *An. (Ano.) pseudopunctipennis*, *An. (Ano.) punctimacula*.
31. Darien, Pucro, Rio Tuira; 26 Feb 58, GML. Shaded spring pool. *An. (Ano.) eiseni*, *Cx. (Cux.)* sp undetermined, *Cx. (Mel.)* sp undetermined, *Hg. (Hag.) lucifer*, *Ur. (Ura.) ?trapidoi*.
34. Darien, Pucro, Rio Tuira, mouth of Rio Paya, 50m; 26 Feb 58, GML. Shannon trap. *Tr. (Shn.)* n. sp.
38. Darien, Pucro, Rio Tuira; 27 Mar 58, GML. Aroid leaf axils (*Dieffenbachia*). *Tr. (subg. A) ulopus*, *Wy. (Cal.) melanocephala*.

## GG Collection Records

39. Darien, Pucro, Rio Tuira, mouth of Rio Paya, 50m; 27 Feb 58, GML. *Heliconia latispatha* (probably flower bracts). *Wy. (Dec.)* sp undetermined.
42. Darien, Pucro, Rio Tuira, mouth of Rio Paya, 50m; 28 Feb 58, GML. Shannon trap, 0200-0600hrs. *An. (Ano.) apicimacula*, *An. (Ano.) punctimacula*.
43. Darien, Pucro, Rio Tuira; 28 Feb 58, GML. Residual pools. *An. (Ano.) eiseni*, *An. (Ano.) punctimacula*, *An. (Nys.) oswaldoi*, *An. (Nys.)* sp undetermined, *Cx. (Cux.) coronator* group, *Cx. (Mel.)* sp undetermined, *Ur. (Ura.) lowii*.
44. Darien, Pucro, Rio Tuira, mouth of Rio Paya, 50m; 28 Feb 58, GML. Streamside rockholes. *Cx. (Cux.) coronator* group, *Cx. (Mel.)* sp undetermined.
45. Darien, Pucro, Rio Tuira, mouth of Rio Paya, 50m; 1958, GML. Residual pools. *An. (Ano.) punctimacula*.
49. Darien, Pucro, Rio Tuira, mouth of Rio Paya, 50m; 1 Mar 58, GML. Tree stations. *Hg. (Hag.) lucifer*.
50. Darien, Pucro, Rio Tuira, mouth of Rio Paya, 50m; 1 Apr 58, GML. Adults in buttresses. *Cx. (Mel.) spissipes*, *Or. fascipes*.
51. Darien, Pucro, Rio Tuira, mouth of Rio Paya, 50m; 1 Mar 58, GML. Adults in "gopher's burrows." *Cx. (Mel.) elevator*, *Cx. (Mel.) spissipes*, *Cx. (Mel.)* sp undetermined.
53. Darien, Pucro, Rio Tuira, mouth of Rio Paya, 50m; 1 Mar 58, GML. Shannon trap, 1800-2000 hrs. *Cx. (Mel.)* sp undetermined.
59. Darien, Pucro, Rio Tuira, mouth of Rio Paya, 50m; 2 Mar 58, GML. Tree stations. *Hg. (Hag.) equinus*, *Hg. (Hag.) lucifer*.
66. Darien, locality not known; 3 Mar 58, GML. Rearings. *An. (Ano.) eiseni*, *Wy. (Hys.)* sp undetermined.
67. Darien, locality not known; 3 Mar 58, GML. Adult resting on tree trunk. *Tx. (Lyn.) ?hypoptes*.
68. Darien, Pucro, Rio Tuira, mouth of Rio Paya, 50m; 3 Mar 58, GML. Adults in buttresses. *An. (Ano.) eiseni*, *Cx. (And.) conservator*, *Or. fascipes*.
69. Darien, Pucro, Rio Tuira; 3 Mar 58, GML. Tree stations. *Hg. (Hag.) equinus*, *Hg. (Hag.) lucifer*.
77. Darien, Pucro, Rio Tuira; 6 Mar 58, GML. *Heliconia mariae*. *Wy.* sp undetermined.
78. Darien, Pucro, Rio Tuira; 6 Mar 58, GML. Leaf axils of *Heliconia mariae*. *Tr. (subg. A) ulopus*, *Tr. (Trc.)* n. sp near *digitatum*, *Wy. (Cal.) melanocephala*, *Wy. (Dec.)* sp undetermined.
79. Darien, Pucro, Rio Tuira, mouth of Rio Paya, 50m; 6 Mar 58, GML. Adult biting in camp. *Tr. (Shn.)* n. sp.
85. Darien, Pucro, "Quebrada Limon," 50m; 1 Mar 58, GML. Shannon trap. *Ae. (Och.) nubilus*, *Cx. (Mel.) erraticus*, *Cx. (Mel.) iolambdis*, *Cx. (Mel.)* sp undetermined, *Ur. (Ura.) lowii*.
89. Darien, Pucro, "Quebrada Limon," 50m; 8 Mar 58, GML. *Heliconia latispatha* (probably flower bracts). *Or. phyllozoa*, *Wy. (Dec.) pseudopecten* group.
90. Darien, Pucro, "Quebrada Limon," 50m; 8 Mar 58, GML. Bamboo (basal section). *Tr. (Shn.)* n. sp, *Wy. (Mia.)* sp 15, *Wy. (Pen.) arthrostigma*.
91. Darien, Pucro, "Quebrada Limon," 50m; 1 Mar 58, GML. Bamboo. *Tr. (Shn.)* n. sp.
92. Darien, Pucro, "Quebrada Limon," 50m; 8 Mar 58, GML. Rearing. *Ch. bathana*.
93. Darien, Pucro, "Quebrada Limon," 50m; 8 Mar 58, GML. Rearings. *An. (Ano.) punctimacula*, *Cx. (Mel.)* sp undetermined, *Wy. (Jnc.) clasoleuca*.
95. Darien, Pucro, Rio Tuira; 9 Mar 58, GML. "Tabanidae tree station," rearing. *Tr. (Cte.) magnum*.
101. Darien, Pucro, "Paya Camp," 50m; 6 Jul 58, GML. Bamboo. *Sa. (Sbn.) identicus*, *Tr. (Trc.) pallidiventer*, *Wy. (Pen.) arthrostigma*.
102. Darien, Pucro, "Paya Camp," 50m; 6 Jul 58, GML. Bamboo. *An. (Ano.) eiseni*.
103. Darien, Pucro, "Paya Camp," 50m; 6 Jul 58, GML. Bamboo. *Sa. (Sbn.)* sp 3, *Wy. (Pen.) arthrostigma*.
104. Darien, Pucro, "Paya Camp," 50m; 6 Jul 58, GML. Bamboo. *Li. durhamii*, *Tr. (Trc.) pallidiventer*, *Tr. (Trc.)* n. sp near *pallidiventer*.

## GG Collection Records

105. Darien, Pucro, "Paya Camp," 50m; 6 Jul 58, GML. Bamboo. *Cx. (Car.) antunesi*, *Cx. (Cux.)* sp undetermined, *Li. durhamii*, *Sa. (Sbn.) identicus*, *Sa. (Sbn.)* sp 2, *Sa. (Sbn.)* sp 3, *Tx. (Lyn.)* sp A, *Tr. (Shn.)* n. sp, *Tr. (Trc.)* n. sp near *pallidiventer*, *Wy. (Mia.)* sp 15, *Wy. (Mia.)* sp 17, *Wy. (subg. B)* sp 52.

106. Darien, Pucro, "Paya Camp," 50m; 6 Jul 58, GML. Bamboo. *Wy. (Mia.)* sp 17, *Wy. (subg. B)* sp undetermined.

107. Darien, Pucro, "Paya Camp," 50m; 6 Jul 58, GML. Bamboo. *Cx. (Car.) antunesi*, *Sa. (Sbn.) identicus*, *Tr. (Trc.)* n. sp near *digitatum*.

108. Darien, locality not known; 7 Jul 58, GML. Terrestrial bromeliads. *Cx. (Mcx.) imitator* group, *Li. durhamii*, *Sa. (Sbn.)* sp 2, *Tx. (Lyn.)* ?sp A, *Tr. (subg. A) ulopus*, *Wy. (Hys.)* sp B, *Wy. (Wyo.) pertinans* group sp G, *Wy. (Wyo.) pertinans* group sp undetermined.

109. Darien, Pucro, 50m; 8 Jul 58, GML. Bamboo. *Cx. (Car.) antunesi*, *Sa. (Sbn.) identicus*, *Sa. (Sbn.)* sp 2, *Sa. (Sbn.)* sp 3, *Tr. (Shn.)* n. sp, *Tr. (Trc.) castroi*, *Tr. (Trc.) pallidiventer*, *Tr. (Trc.)* n. sp near *pallidiventer*, *Wy. (Mia.)* sp 15, *Wy. (Mia.)* sp 17, *Wy. (subg. B)* sp 52.

110. Darien, Pucro, 50m; 8 Jul 58, GML. Bamboo. *Sa. (Sbn.)* sp 3, *Tx. (Lyn.) superbus*, *Tx. (Lyn.)* sp A, *Tr. (Trc.) pallidiventer*, *Wy. (Mia.)* sp 15, *Wy. (Pen.) arthrostigma*.

111. Darien, Pucro, "Tacarcuna," 700m; 1 Sept 58, GML. Leaf axils of aroid (*Dieffenbachia*). *Tr. (Trc.)* n. sp near *digitatum*, *Tr. (subg. A) ulopus*, *Wy. (Prs.) complosa*, *Wy. (Wyo.) simmsi*.

112. Darien, Pucro, "Tacarcuna," 700m; 1 Sept 58, GML. Epiphytic bromeliads. *Cx. (Mcx.)* sp undetermined, *Wy. (Hys.)* sp D, *Wy. (Hys.)* sp undetermined, *Wy. (Wyo.) simmsi*.

113. Darien, Pucro, "Tacarcuna," 1 Sept 58, GML. Palm leaf. *Cx. (Car.) secundus*, *Tr. (Trc.) digitatum*, *Tr. (Trc.) lampropus*.

114. Darien, Pucro, "Tacarcuna," 1 Sept 58, GML. Fallen bromeliad. *Wy. (Hys.)* sp undetermined, *Wy. (Wyo.) abebela*, *Wy. (Wyo.) ?pertinans* group sp L, *Wy. (Wyo.) pertinans* group sp Q, *Wy. (Wyo.) pertinans* group sp undetermined.

115. Darien, Pucro, "Tacarcuna, road to El Salto camp"; 7 Sept 58, GML. Rearings. *An. (Ano.) eiseni*, *Cx. (Cux.) mollis*, *Li. asulleptus*.

116. Darien, Pucro, "Tacarcuna, road to El Salto camp"; 6 Sept 58, GML. Palm spathe ("penca palma"). *An. (Ano.) eiseni*, *An. (Ano.)* sp undetermined, *Cx. (Car.) secundus*, *Tr. (Trc.) digitatum*.

117. Darien, Paya, "Quebrada Murqui," 50m; 9 Sept 58, GML. Bamboo. *Li. durhamii*, *Sa. (Sbn.)* sp 3, *Tr. (Trc.) digitatum*, *Tr. (Trc.) pallidiventer*, *Wy. (subg. B)* sp 52.

118. Darien, Pucro, "Tacarcuna, El Salto"; 9 Sept 58, GML. Treehole. *Cx. (And.) conservator*, *Tr. (Trc.)* n. sp near *digitatum*.

119. Darien, Pucro, "Tacarcuna, El Salto"; 7 Sept 58, GML. Treehole. Specimens discarded.

120. Darien, Pucro, "Tacarcuna"; 9 Sept 58, GML. Rearings from eggs. *Wy. (subg. D) chalcocephala*.

121. Darien, Pucro, "Tacarcuna"; 9 Sept 58, GML. Rearings from eggs. *Sa. (Sbo.) chloropterus*.

122. Darien, Pucro, Paya, 100m; 24 Sept 58, GML. Bamboo. *Sa. (Sbn.) identicus*, *Tr. (Trc.) pallidiventer*.

123. Darien, Pucro, "Tacarcuna"; 9 Sept 58, GML. Rearings from eggs. *Hg. (Hag.) janthinomys*.

124. Darien, Pucro, "Tacarcuna"; 9 Sept 58, GML. Rearings from eggs. *Sa. (Sbo.) chloropterus*.

## GG Locality Index

Elevations are only approximate and may be in error by 100m or more.

## DARIEN

*Paya* (village on Rio Paya, a tributary of Rio Tuira), 100m, vicinity of.—1-101-113, 1-116, 1-117, 1-120, 1-121, 1-123, 1-124, 1-126, 1-129, 1-131, 1-133, 1-137, 1-138, 1-141, 1-157, 122.

"*Paya Camp*" (GML camp at confluence of Rio Paya and Rio Tuira), 50m.—1-114, 1-115, 1-119, 1-130, 1-144, 1-151, 101, 102, 103, 104, 105, 106, 107.

*Pucro* (8°01'N, 77°30'W, village on Rio Pucro), 50m, vicinity of.—109, 110.

*Puerto Pina* (17NRU1040), near sea level.—1-147.

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- "*Quebrada Limon*" (tributary of Rio Tuira about 5km upstream from Rio Paya), 50m.—1-152, 85, 89, 90, 91, 92, 93.
- "*Quebrada Murqui*" (tributary of Rio Paya about halfway between Paya and Rio Tuira), 50m.—117.
- Rio Chucunaque* (major tributary of Rio Tuira). At or near mouth of Rio Tuquesa, 10m.—1-128, 1-132, 1-135, 1-142, 1-143, 1-150, 1-156. Not specified, but probably near Rio Tuquesa.—1-139, 1-146, 1-153.
- Rio Pucro* (tributary of Rio Tuira, draining SW slopes of Serrania del Darien). At or near mouth of Rio Tapalisa, 50m.—1-125, 1-140, 1-145, 17. Upper Rio Pucro.—1-149, 1-158, 10, 19. Not specified.—1-122, 1-136, 11, 16.
- Rio Tuira*. At or near mouth of Rio Paya, 50m.—1-127, 1-148, 1-155, 1-159, 4, 6, 8, 14, 24, 25, 34, 39, 42, 44, 45, 49, 50, 51, 53, 59, 68, 79. Not specified, but probably near Rio Paya.—22, 31, 38, 43, 69, 77, 78, 95.
- "*Tacarcuna*" (Massif located between upper watersheds of Rio Pucro and Rio Tapalisa). "El Salto."—118, 119. "Road to El Salto camp."—115, 116. Not specified, but elevation 700m.—1-134, 111, 112. Not specified.—1-118, 1-154, 113, 114, 120, 121, 123, 124.

## GG Species Index

- Aedes (Ochlerotatus) nubilus* (Theobald 1903).—85.
- Aedes (Ochlerotatus) ?serratus* group.—1-153, 4, 8.
- Aedes (Ochlerotatus) taeniorhynchus* (Wiedemann 1821).—1-153.
- Anopheles (Anopheles) apicimacula* Dyar and Knab 1906.—1-147, 8, 25, 42.
- Anopheles (Anopheles) eiseni* Coquillett 1902.—1-127, 11, 31, 43, 66, 68, 102, 115, 116.
- Anopheles (Anopheles) pseudopunctipennis* Theobald 1901.—25.
- Anopheles (Anopheles) punctimacula* Dyar and Knab 1906.—1-132, 1-155, 1-159, 8, 14, 25, 42, 43, 45, 93.
- Anopheles (Anopheles) sp* undetermined.—1-159, 116.
- Anopheles (Nyssorhynchus) oswaldoi* (Peryassu 1922).—1-126, 1-129, 1-133, 1-137, 1-138, 1-141, 1-159, 43.
- Anopheles (Nyssorhynchus) sp* undetermined.—1-152, 1-159, 43.
- Chagasia bathana* (Dyar 1928).—1-158, 92.
- Culex (Anodiopora) conservator* Dyar and Knab 1906.—1-115, 1-146, 1-156, 68, 118.
- Culex (Carrollia) antunesi* Lane and Whitman 1943.—1-160, 105, 107, 109.
- Culex (Carrollia) secundus* Bonne-Wepster and Bonne 1920.—113, 116.
- Culex (Culex) bonneae* Dyar and Knab 1919.—11.
- Culex (Culex) chidesteri* Dyar 1921.—1-146.
- Culex (Culex) corniger* Theobald 1903.—8.
- Culex (Culex) coronator* group.—1-139, 43, 44.
- Culex (Culex) mollis* Dyar and Knab 1906.—1-130, 115.
- Culex (Culex) sp* undetermined.—1-148, 1-159, 8, 11, 14, 31, 105.
- Culex (Lutzia) allostigma* (Howard, Dyar and Knab 1915).—11.
- Culex (Melanoconion) elevator* Dyar and Knab 1906.—51.
- Culex (Melanoconion) erraticus* (Dyar and Knab 1906).—85.
- Culex (Melanoconion) iolambdis* Dyar 1918.—85.
- Culex (Melanoconion) mutator* group: *sp* near *mutator*.—1-159.
- Culex (Melanoconion) spissipes* (Theobald 1903).—1-146, 1-150, 50, 51.
- Culex (Melanoconion) sp* undetermined.—1-128, 1-148, 1-158, 10, 11, 31, 43, 44, 51, 53, 85, 93.
- Culex (Microculex) imitator* group.—108.
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- Haemagogus (Haemagogus) equinus* Theobald 1903.—59, 69.
- Haemagogus (Haemagogus) janthinomys* Dyar 1921.—1-118, 123.



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- Haemagogus (Haemagogus) lucifer* (Howard, Dyar and Knab 1913).—1-101-113, 1-116, 1-121, 1-123, 1-131, 12, 31, 49, 59, 69.
- Limatus asulleptus* (Theobald 1903).—1-160, 22, 115.
- Limatus durhamii* Theobald 1901.—104, 105, 108, 117.
- Mansonia (Mansonia)* sp undetermined.—1-153, 8.
- Orthopodomyia fascipes* (Coquillett 1905).—50, 68.
- Orthopodomyia phyllozoa* (Dyar and Knab 1907).—89.
- Psorophora (Grabhamia) cingulata* group.—1-149.
- Psorophora (Janthinosoma)* sp undetermined.—1-153.
- Psorophora (Psorophora) lineata* (Humboldt 1819).—8.
- Sabethes (Sabethinus) identicus* Dyar and Knab 1907, not *identicus* of Lane 1953:1083.—17, 101, 105, 107, 109, 122.
- Sabethes (Sabethinus)* sp 2: near sp 3.—105, 108, 109.
- Sabethes (Sabethinus)* sp 3: near *undosus* of Lane 1953:1084.—1-145, 103, 105, 109, 110, 117.
- Sabethes (Sabethinus)* sp undetermined.—24.
- Sabethes (Sabethoides) chloropterus* (Humboldt 1819).—1-154, 121, 124.
- Toxorhynchites (Lynchiella) ?hypoptes* (Knab 1907).—1-151, 67.
- Toxorhynchites (Lynchiella) superbus* (Dyar and Knab 1906).—1-114, 1-157, 110.
- Toxorhynchites (Lynchiella)* sp A: near *hypoptes*.—1-125, 105, ?108, 110.
- Trichoprosopon (Ctenogoeldia) magnum* (Theobald 1905).—95.
- Trichoprosopon (Shannoniana)* n. sp.—1-122, 16, 17, 105.
- Trichoprosopon (Shannoniana)* n. sp.—17, 90, 91, 109.
- Trichoprosopon (Shannoniana)* n. sp.—34, 79.
- Trichoprosopon (Trichoprosopon) castroi* Lane and Cerqueira 1942.—109.
- Trichoprosopon (Trichoprosopon) digitatum* (Rondani 1848).—1-160, 17, 113, 116, 117.
- Trichoprosopon (Trichoprosopon)* n. sp near *digitatum*.—1-160, 17, 78, 107, 111, 118.
- Trichoprosopon (Trichoprosopon) lampropus* (Howard, Dyar and Knab 1913).—113.
- Trichoprosopon (Trichoprosopon) pallidiventer* (Lutz 1905).—101, 104, 109, 110, 117, 122.
- Trichoprosopon (Trichoprosopon)* n. sp near *pallidiventer*.—104, 105, 109.
- Trichoprosopon* (subgenus A) *ulopus* (Dyar and Knab 1906).—38, 78, 108, 111.
- Uranotaenia (Uranotaenia) lowii* Theobald 1901.—1-135, 1-143, 1-148, 1-159, 43, 85.
- Uranotaenia (Uranotaenia) pallidoventer* Theobald 1903.—1-142.
- Uranotaenia (Uranotaenia) ?trapidoi* Galindo, Blanton and Peyton 1954.—11, 19, 31.
- Wyeomyia (Calladimyia) melanocephala* Dyar and Knab 1906.—38, 78.
- Wyeomyia (Decamyia) pseudopecten* group.—89.
- Wyeomyia (Decamyia)* sp undetermined.—39, 78.
- Wyeomyia (Hystatomyia)* sp B: possibly *circumcincta*.—108.
- Wyeomyia (Hystatomyia)* sp D: possibly *intonca*.—112.
- Wyeomyia (Hystatomyia)* sp undetermined.—66, 112, 114.
- Wyeomyia (Janicemyia) clasoleuca* Dyar and Knab 1908.—6, 93.
- Wyeomyia (Miamiya)* sp 15: possibly *hosautos*.—1-136, 1-140, 16, 17, 90, 105, 109, 110.
- Wyeomyia (Miamiya)* sp 17: possibly *oblita*.—16, 17, 105, 106, 109.
- Wyeomyia (Pentemyia) arthrostigma* (Lutz 1905).—90, 101, 103, 110.
- Wyeomyia (Prosopolepis) complosa* (Dyar 1928).—?1-134, 111.
- Wyeomyia (Triamyia)* sp 8: near *aporonoma*.—1-144.
- Wyeomyia (Wyeomyia) abebela* Dyar and Knab 1908.—114.
- Wyeomyia (Wyeomyia) pertinans* group sp G: affinities not known.—108.
- Wyeomyia (Wyeomyia) ?pertinans* group sp L: larva and pupa typical of *pertinans* group, but male genitalia closer to *simmsi* and *melanopus*.—114.
- Wyeomyia (Wyeomyia) pertinans* group sp Q: possibly *chresta* or *leucopisthepus*, near sp P.—114.
- Wyeomyia (Wyeomyia) pertinans* group sp undetermined.—1-119, 108, 114.
- Wyeomyia (Wyeomyia) simmsi* (Dyar and Knab 1908).—111, 112.

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- Wyeomyia* (subgenus B) sp 52: near sp 62 and *personata*.—105, 109, 117.  
*Wyeomyia* (subgenus D) *chalcocephala* Dyar and Knab 1906.—120.  
*Wyeomyia* sp undetermined.—1-160, 77, 106.

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